# LCD-Monitor

Chassis LDO19WS
LDO19CS

Model 940MW
940MG

# SERVICE Manual

## LCD Monitor

## Fashion Feature

- MFM Model
- VCT49xy
- W/W model
- High Contrast Ratio(700:1)
- High Luminance(300cd/m2)

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LDO19WS Service Manual

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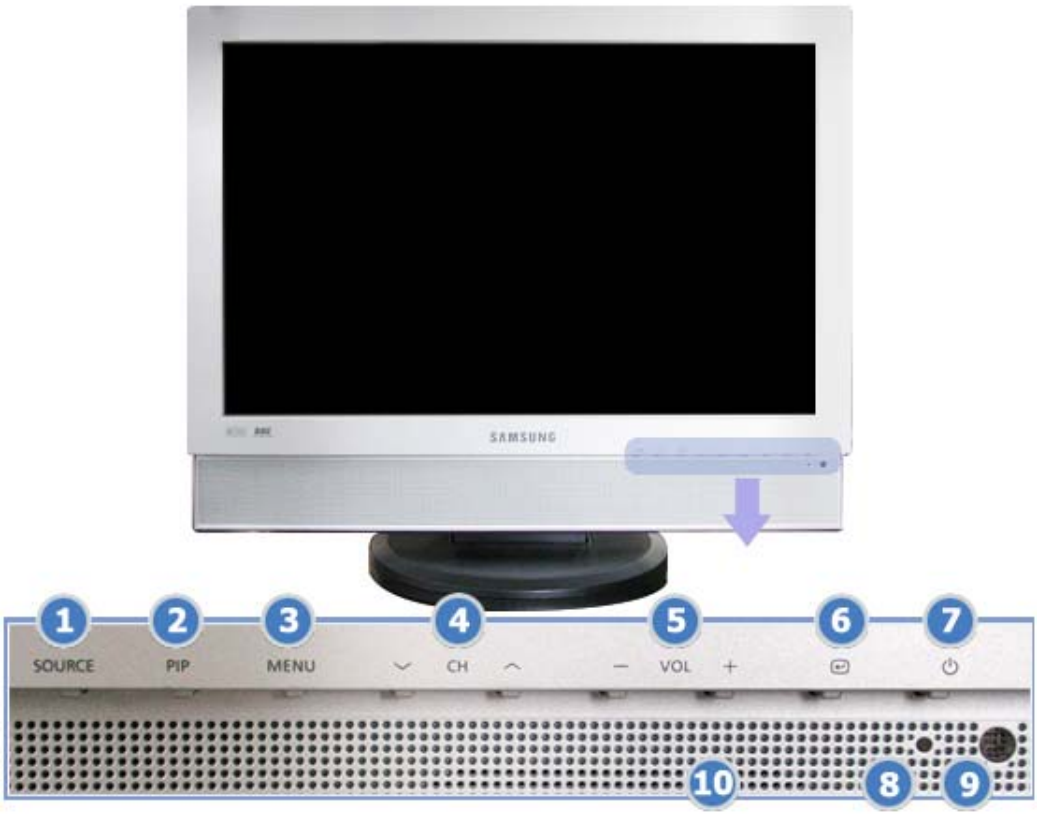
# 10 Operating Instructions and Installation

## 10-1 Front




**1. SOURCE**
Switches from PC Mode to Video mode.
Changing the source is allowed only in external devices that are connected to the monitor at the time.
To switch Screen modes:
[PC] - [DVI] - [TV] - [Ext.] - [AV] - [S-Video] - [Component]

**2. PIP ( Available in PC/DVI/Component Mode )**
In PC Mode, turns on Video or TV screens in PIP mode.

**3. MENU**
Use this button for open the on-screen menu and exits from the menu screen or closes screen adjustment menu.

**4. ∨ CH ∧**
Moves from one menu item to another vertically or adjusts selected menu values.
In TV mode, selects TV channels.

**5. − VOL +**
Moves from one menu item to another horizontally or adjusts selected menu values.
Adjusts the audio volume.

**6. [ ⏎ ] Enter button**
Activates a highlighted menu item.

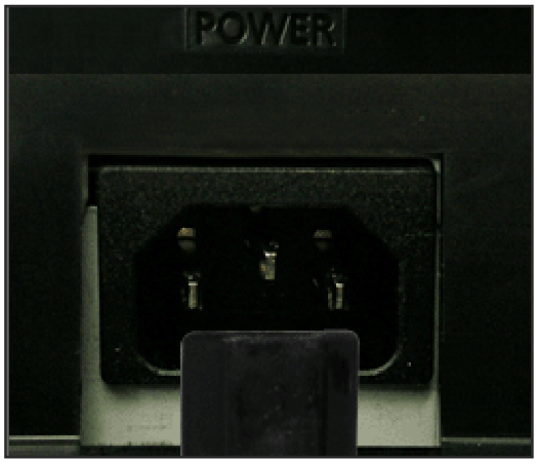
**7. [ ⏻ ] Power button**
Use this button to turn the monitor on and off.

**8. Power indicator**
Power Indicator shows PowerSaver mode by green blinking.

**9. Remote Control Sensor**
Aim the remote control towards this spot on the monitor.

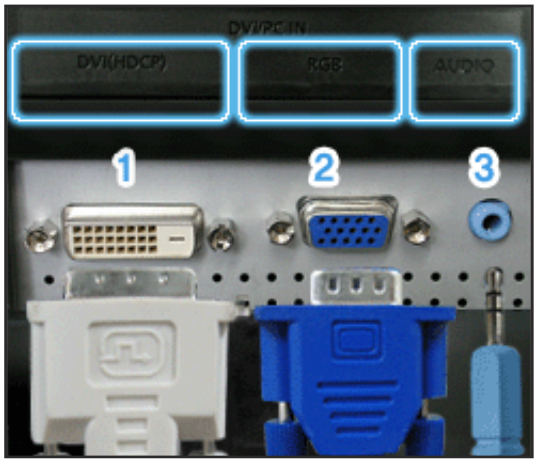
**10. Speaker**
You can hear sound by connecting the soundcard of your PC to the monitor.

## 10-2 Rear




**1. POWER**

Power terminal
Connect the power cord for your monitor to the POWER on the back of the monitor.
This product may be used with 100 ~ 240VAC (+/- 10%).




**2.DVI/PC IN**

1) DVI(HDCP)
: Connect the DVI cable to the DVI(HDCP) port on the back of your monitor.
2) RGB
: Connect the signal cable to the RGB port on the back of your monitor.
3) AUDIO
: PC sound terminal (input)

**3. EXT(RGB)**

External device terminal
EXT(RGB) is mainly used in Europe.

As for EXT(RGB) port of the monitor, it makes TV or Video signal input and output.

**4. COMPONENT IN**

1) R - AUDIO - L
: DVD/DTV sound input terminal (left/right)
2) PR, PB,Y
: DVD/DTV video input terminal(PR, PB,Y)

**5. ANT IN**

TV antenna terminal

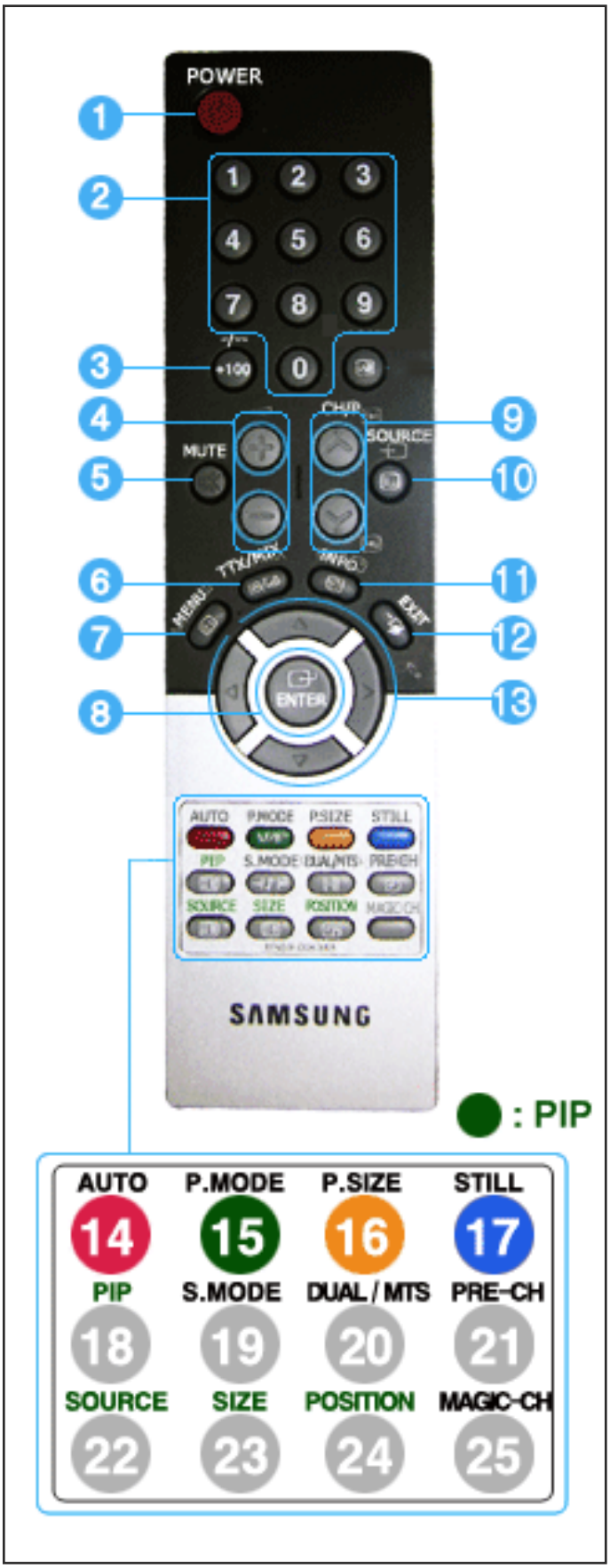
**6. AV connection terminal**

1) 🎧
   : Headphone sound output terminal
2) S-VIDEO
   : External device (S-video) input terminal
3) VIDEO
   : External device (video) input terminal
4) R - AUDIO - L
   : External device sound input terminal

**7. Kensington Lock**

The Kensington lock is a device used to physically fix the system when using it in a public place.
(The locking device has to be purchased separately.)
**For using a locking device, contact where you purchase it.**

## 10-3 Remote Control




1. POWER
2. Number button
3. +100, -/--
4. - + 
5. MUTE
6. TTX/MIX
7. MENU
8. ENTER
9. CH/P
10. SOURCE
11. INFO
12. EXIT
13. Up-Down Left-Right buttons
14. AUTO
15. P.MODE, M/B (MagicBright¢â)
16. P.SIZE
17. STILL
18. PIP
19. S.MODE
20. DUAL/MTS
21. PRE-CH
22. SOURCE
23. SIZE
24. POSITION
25. MAGIC-CH

**1. POWER**
Use this button to turn the monitor on and off.

**2. Number button**
Selects TV channels in the TV mode.
You may use this button in PIP mode as well.

**3. +100**
Press to select channels over 100.
For example, to select channel 121, press "+100", then press "2" and "1".
-/-- (One/Two-Digit channel selection )

Use to select a channel numbered ten or over.
Press this button, and the "--" symbol is displayed.
Enter the two-digit channel number.
This function is available only in Europe.

**4. - + **
Adjusts the audio volume.

**5. MUTE**
Pauses (mutes) the audio output temporarily.
Displays on the lower left corner of the screen.
The audio resumes if mute or - + is pressed in the Mute mode.

**6. TTX/MIX**
TV channels provide written information services via teletext.
This function is available only in Europe.

**7. MENU**
Use this button to open the on-screen menu and exit from the menu screen or close screen adjustment menu.

**8. ENTER**
Activates a highlighted menu item.

**9. CH/P**
In TV mode, selects TV channels.

**10. SOURCE**
Switches from PC Mode to Video mode.
Changing the source is allowed only in external devices that are connected to the monitor at the time.

**11. INFO**
Current picture information is displayed on the upper left corner of the screen.

**12. EXIT**
Exits from the menu screen.

**13. Up-Down Left-Right buttons**
Moves from one menu item to another horizontally, vertically or adjusts selected menu values.

**14. AUTO - Available in PC Mode Only**
Adjusts the screen display automatically.

**15. P.MODE, M/B (MagicBright¢â)**
When you press this button, current mode is displayed on the lower center of the screen.

TV / AV / Ext. / S-Video /Component Mode :
P.MODE( Picture Mode )
The monitor has four automatic picture settings that are preset at the factory.
Then push button again to circle through available preconfigured modes.
( Dynamic ¡æ Standard ¡æ Movie ¡æ Custom )

PC / DVI Mode : M/B ( MagicBright¢â )
MagicBright¢â is a new feature providing the optimum viewing environment depending on the contents of the image you are watching.
Then push button again to circle through available preconfigured modes.
( Entertain¡æ Internet ¡æ Text ¡æ Custom )

**16. P.SIZE - Not available in PC/DVI Mode**
Press to change the screen size.
(Auto Wide ¡æ Wide ¡æ Panorama ¡æ Zoom1 ¡æ Zoom2 ¡æ 4:3)
Panorama, Zoom1, Zoom2 are not available in 1080i(or over 720p) of DTV.

**17. STILL - Not available in PC/DVI/Component Mode**
Press the button once to freeze the screen. Press it again to unfreeze.

**18. PIP - Available in PC/DVI/Component Mode**
Push the PIP button to turn PIP screen On/Off.

**19. S.MODE ( Sound Mode )**
When you press this button, current mode is displayed on the lower center of the screen.
The monitor has a built-in high fidelity stereo amplifier.
Then push button again to circle through available preconfigured modes.
(Standard ¡æ Music ¡æ Movie ¡æ Speech ¡æ Custom)

**20. DUAL / MTS**
DUAL : STEREO/MONO, DUAL I / DUAL II and MONO/NICAM MONO/NICAM STEREO can be operated depending on broadcasting type by using DUAL button on the remote control while watching TV.

MTS : You can select the MTS (Multichannel Television Stereo) mode.
- Mono, Stereo, SAP (Separate Audio Program)
Set 'MTS' to ON to choose Mono, Stereo or SAP.

**21. PRE-CH**
This button is used to return to the immediately previous channel.

**22. SOURCE - Available in PIP Mode**
Selects the Video source.

**23. SIZE - Available in PIP Mode**
You can switch the PIP picture size.

**24. POSITION - Available in PIP Mode**
Changes the Position of the PIP window.

**25. MAGIC-CH**
MagicChannel enables you to watch only certain channels.
This function is available only in Korea.

# Memo

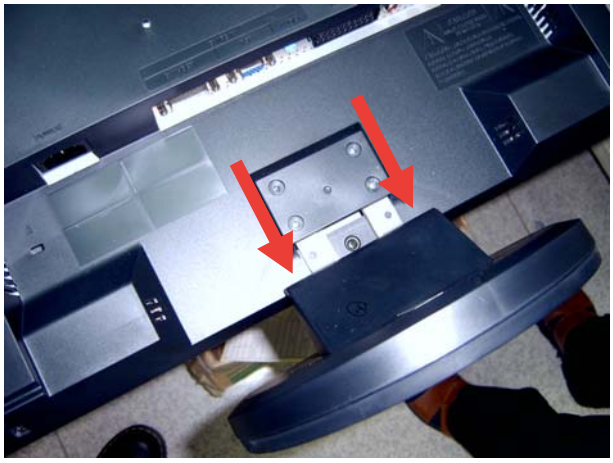
# 11 Disassembly and Reassembly

This section of the service manual describes the disassembly and reassembly procedures for the LDO19WS TFT-LCD monitors.

⚠ **WARNING: This monitor contains electrostatically sensitive devices. Use caution when handling these components.**

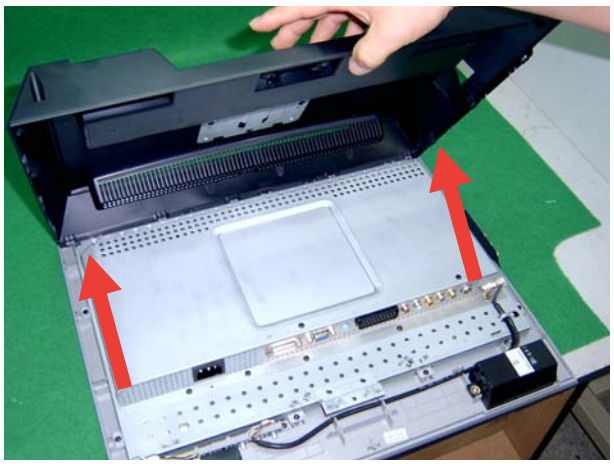
## 11-1 Disassembly

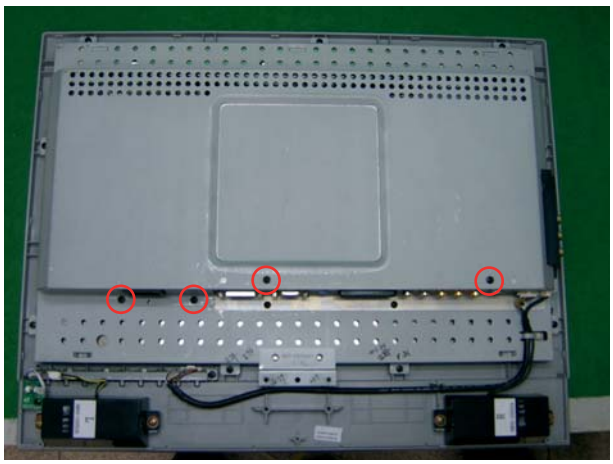
⚠ **Cautions:** 1. Disconnect the monitor from the power source before disassembly.
2. Follow these directions carefully; never use metal instruments to pry apart the cabinet.



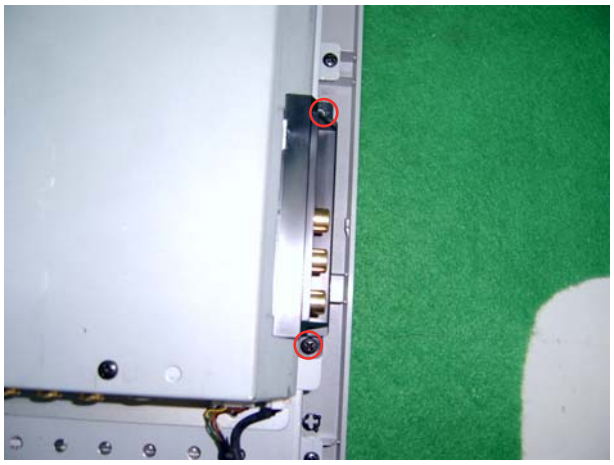
1. Place monitor face down on cushioned table. Remove 4 screws from the stand.

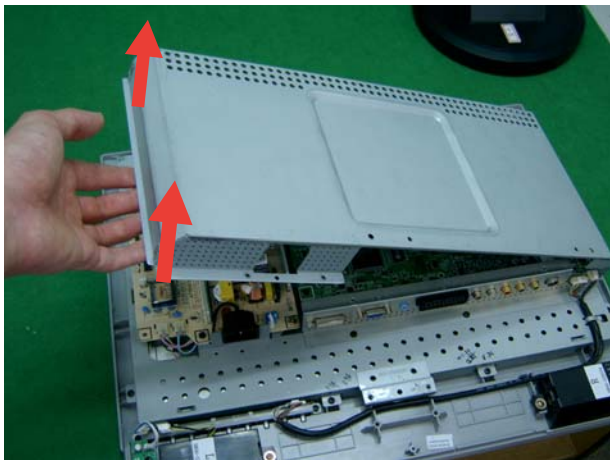
2. Remove 3 screws from the rear-cover. Lift up the rear-cover.



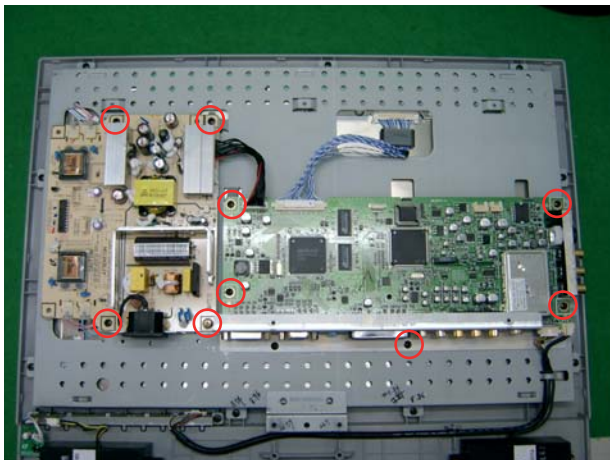


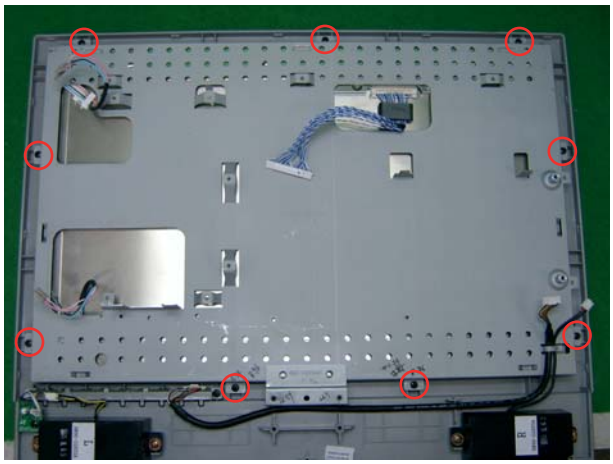
3. Remove 4 screws from the shield-cover.



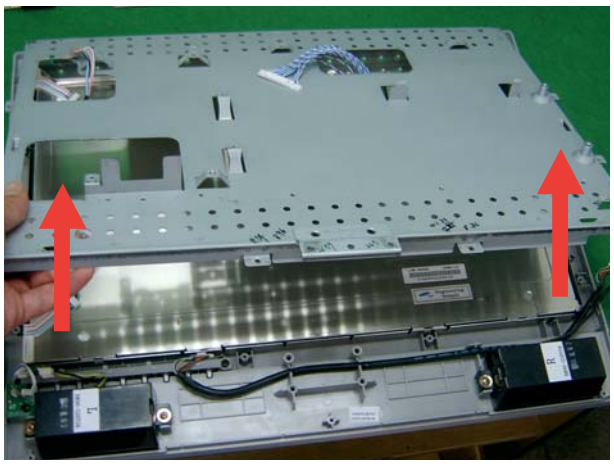


4. Remove 2 screws from the side connector. Lift up the shield-cover.





5. Remove 9 screws from the boards. Remove 9 screws from the BRKT.



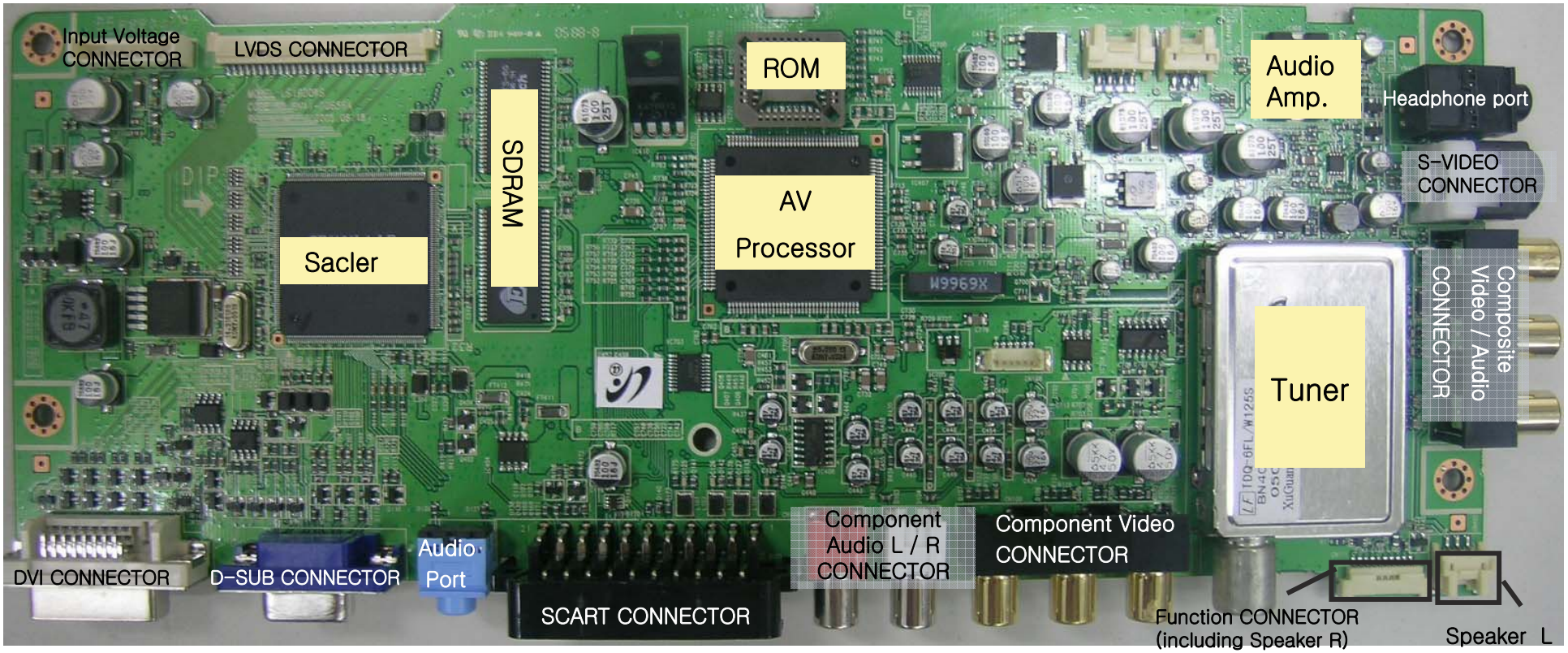
6. Lift up the Panel-BRKT.

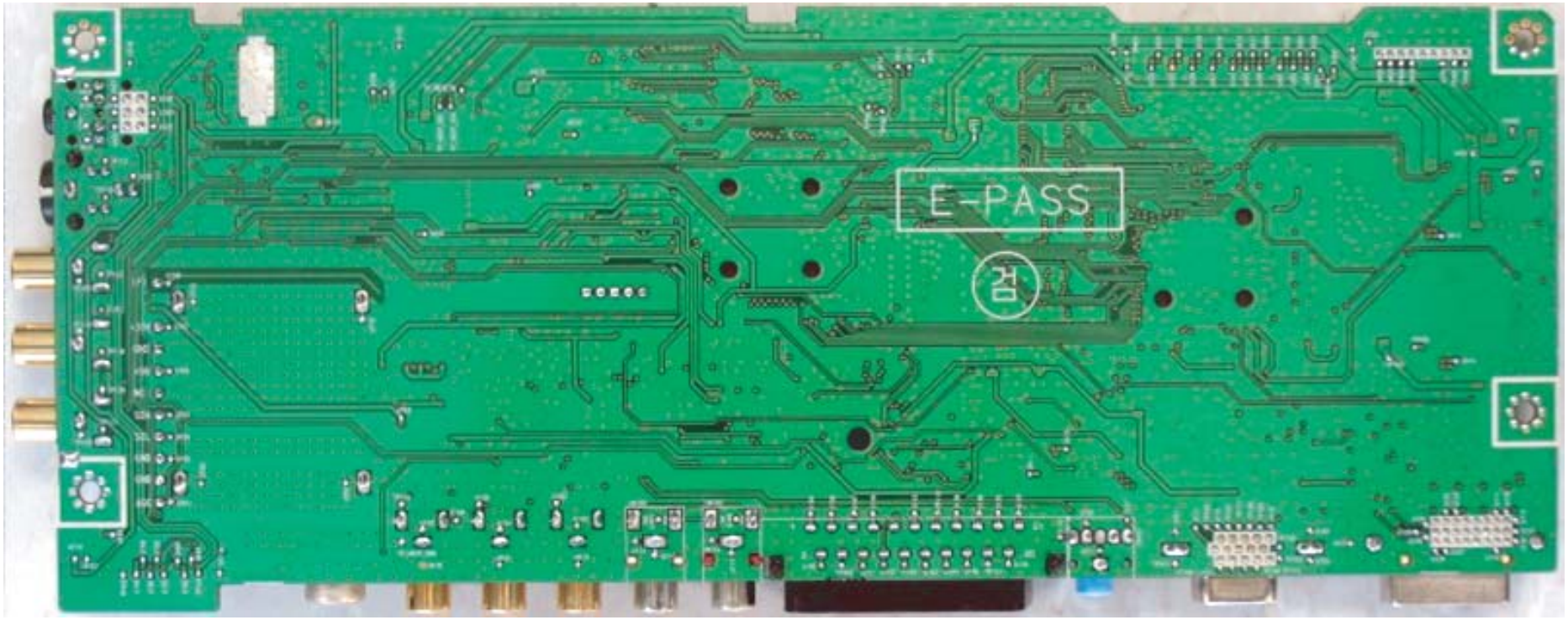
## 11-2 Reassembly

-Reassembly procedures are in the reverse order of disassembly procedures.

# Memo

# 12 PCB Diagram




E-PASS
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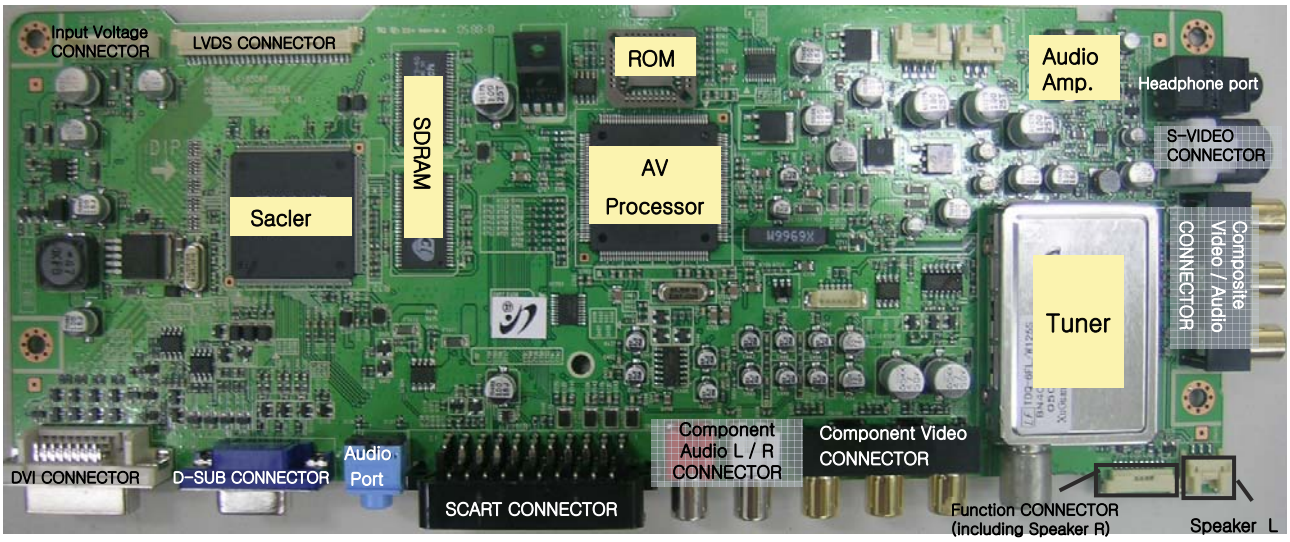
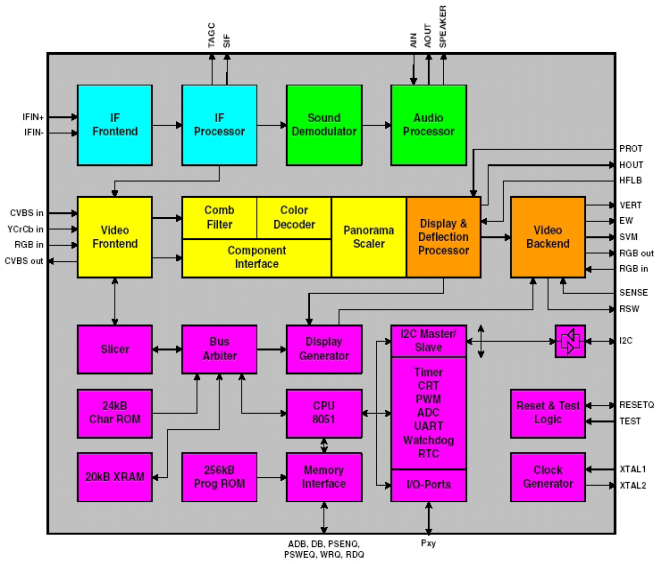
# 13 Circuit Descriptions

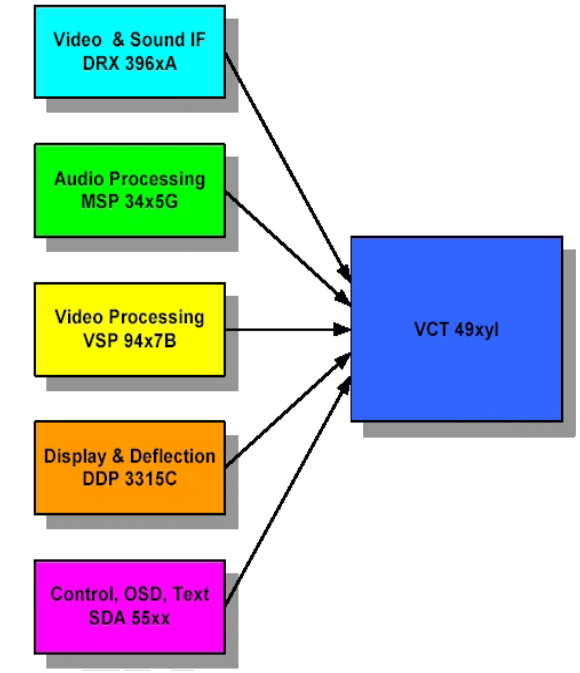
## 13-1 Block description




| No | Block | Description | Name |
|---|---|---|---|
| 1 | UOCⅢ | Versatile signal processor (VSP) | TDA15021H |
| 2 | Scaler | SXGA LCD Controller with Analog Interface and Dual TTL/LVDS Transmitter | TSU396AWJ-LF |
| 3 | Tuner | Antenna RF in | TDQ-6FL |
| 4 | D_sub Input | D_sub input connector | |
| 5 | Function connector | Function key connector | |
| 6 | Speaker connector | Left, Right Speaker Ass'y connector | |
| 7 | Audio jack | JACK-EAR PHONE | |
| 8 | Filter | Video SAW Filter | K7257M |
| | | Sound SAW Filter | K9652M |
| 9 | Audio IC | VOLUME CONTROL | TDA7496L |
| 10 | IP Board connector | Power in | |

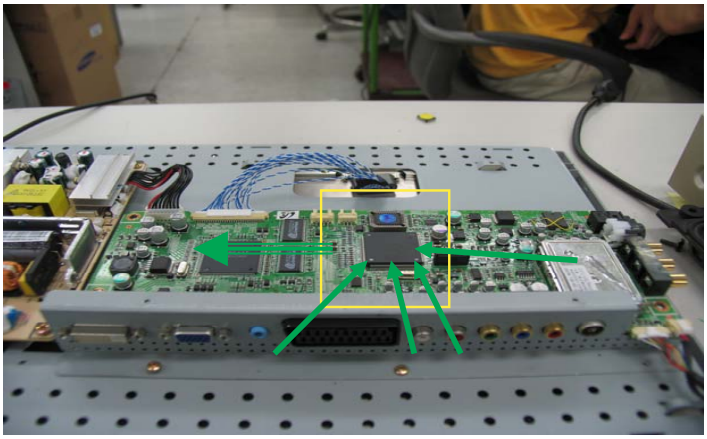
## 13-1-1 VCT49XYI (IC700)

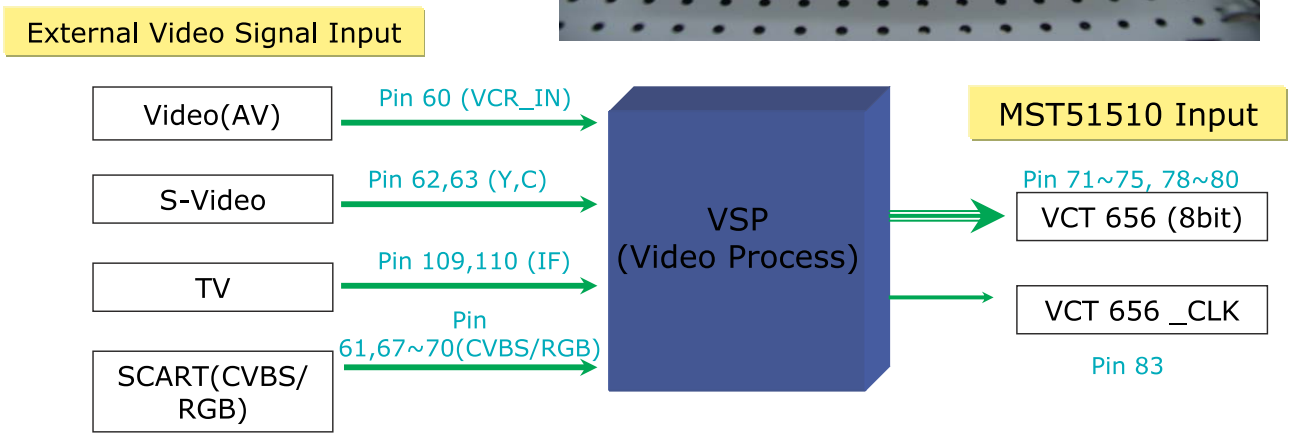



## 13-1-2 VSP Block

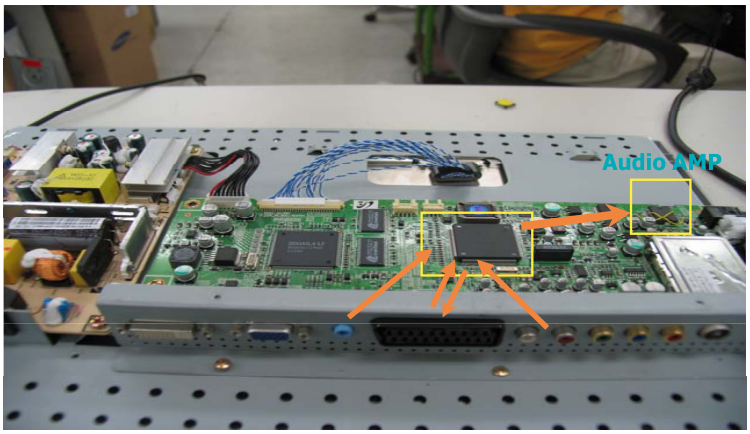
: CVBS, S-Video, RF(IF), SCART (RGB) Convert 656 format to video input and transfer to MST51510

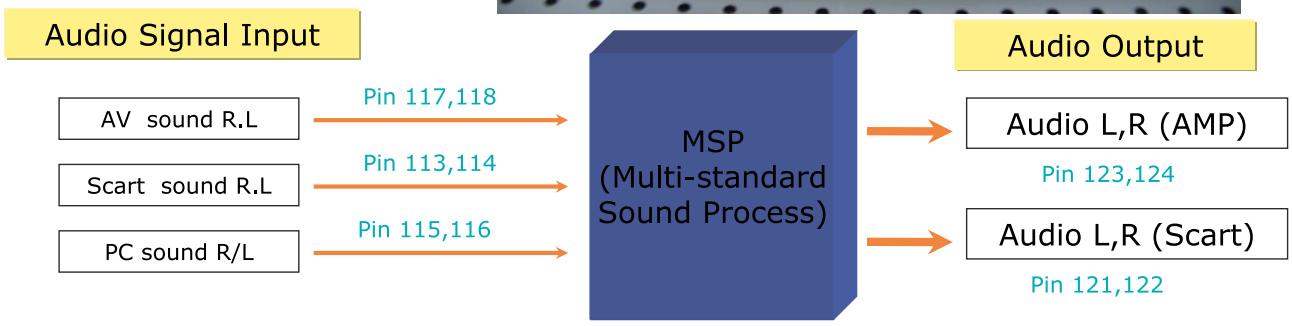




### 13-1-3 MSP Block

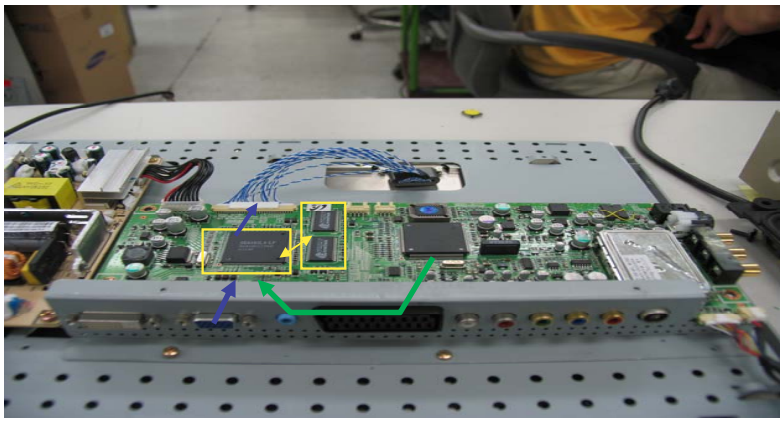
: PC, Sound L/R, SCART, Receive audio input and send out to AMP.

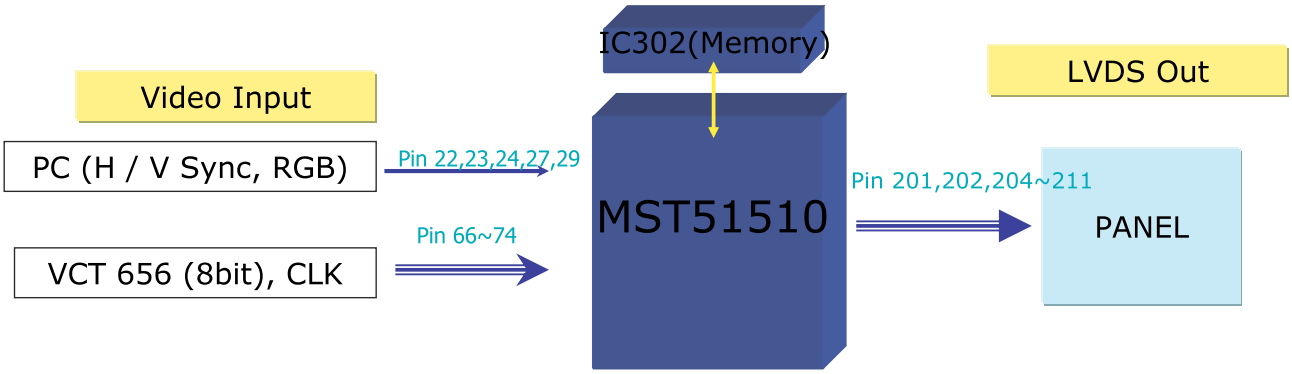


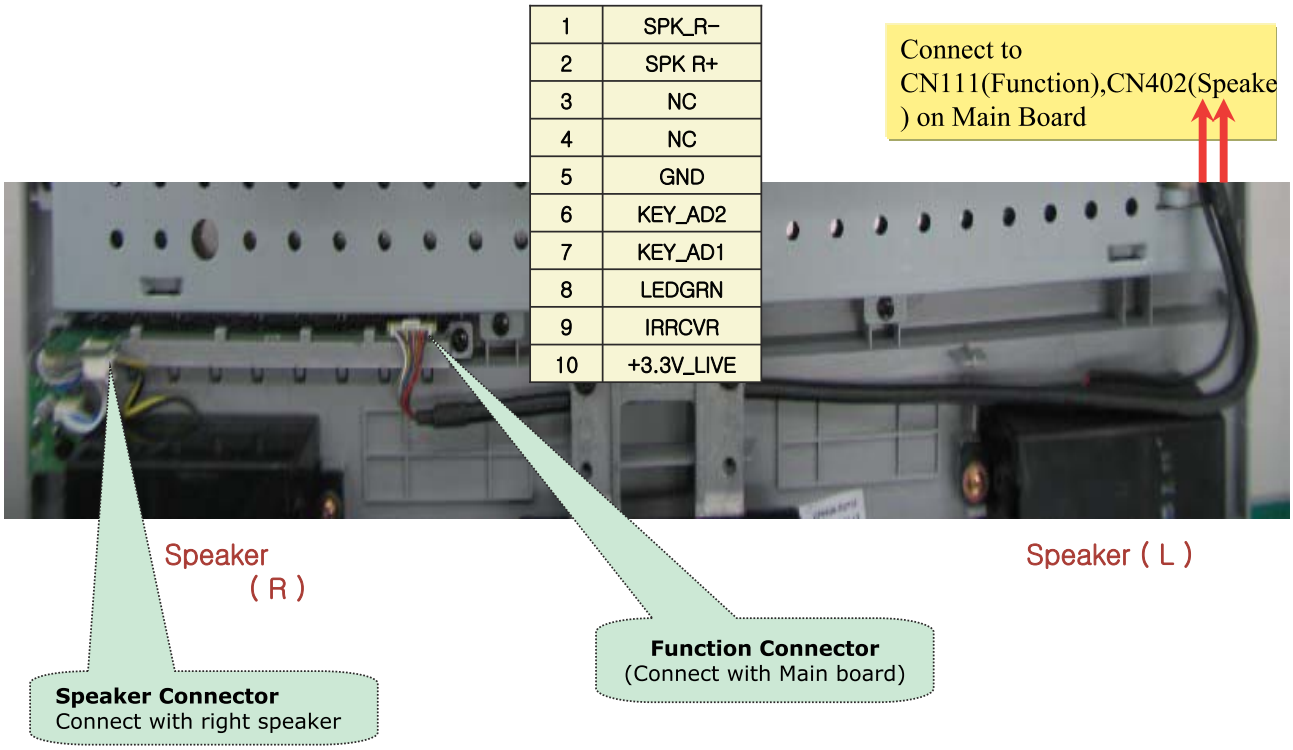

### 13-1-4 SE6181(IC301)

- Scaler(MFM)
- Support Digital Video Input
- Internal LVDS IC
- Support PIP
- OSD controller engine





## 13-1-5 Connect a Function Board to a Main Board



# 14 Reference Infomation

## 14-1 Technical Terms

**- TFT-LCD**
**(Thin film Transistor Liquid Crystal Display)**
ADC(Analog to Digital Converter)
This is a circuit that converts from analog signal to digital signals.

**- PLL(Phase Locked Loop)**
During progressing ADC, Device makes clock synchronizing HSYNC with Video clock

**- Inverter**
Device that supply Power to LCD panel lamp. this device gernerate about 1,500~2,000V.

**- AC Adapter**
Device that converts AC(90V~240V) to DC(+12V or 14V)

**- SMPS(Switching Mode Power Supply)**
Switching Mode Power supply. This design technology is used to step up/down the input power by switching on/off

**- FRC(Frame Rate Controller)**
Technology that change image frame quantity displayed on screen for one second.
Actually TFT-LCD panel require 60 pcs of frame for one second.
so,this technology is needed to convert input image to 60 pcs regardless input frame quantity.

**- Image Scaler**
Technology that convert various input resolution to other resolution.(ex. 640* 480 to 1024*768)

**- Auto Configuration(Auto adjustment)**
This is an algorithm to adjust monitor to optimum condition by pushing one key.

**- OSD(On Screen Display)**
On screen display. customer can control the screen easily with this.

**- Image Lock**
This means "Fineness adjustment " in LCD Monitor, the features are "Fine" and "Coarse"

**- FINE**
"Fine" adjustment is used to adjust visibility by control phase difference.

**- COARSE**
This is a adjustment by tuning with Video colck and PLL clock.

**- DVI (Digital Visual Interface)**
This provides a high speed digital connection for visual data types that is display technology independent. this interface is primarily forcused at providing a connection between a computer and its display device.

**- L.V.D.S.(Low Voltage Differential Signaling)**
a kind of transmission method for Digital.It can be used from Main PBA to Panel.

**- T.M.D.S**
**(Transition minimized Differential Signaling)**
a kind of transmission method for Digital.
It can be used from Video card to Main PBA.

**- DDC(Display data channel)**
It is a communication method between Host Computer and related equipment.
It can make it Plug and Play between PC and Monitor.

**- EDID**
Extended Display Identification Data PC can recognize the monitor information as Product data, Product name,Display mode,Serial number and Signal source,etc through DDC Line communicating with PC and Monitor.

**- Dot Pitch**
The image on a monitor is composed of red, green and blue dots. The closer the dots, the higher the resolution. The distance between two dots of the same color is called the 'Dot Pitch'. Unit: mm

**- Vertical Frequency**
The screen must be redrawn several times per second in order to create and display an image for the user. The frequency of this repetition per second is called Vertical Frequency or Refresh Rate. Unit: Hz
**Example**: If the same light repeats itself 60 times per second, this is regarded as 60 Hz.

**- Horizontal Frequency**
The time to scan one line connecting the right edge to the left edge of the screen horizontally is called Horizontal Cycle. The inverse number of the Horizontal Cycle is called Horizontal Frequency. Unit: kHz

**- Interlace and Non-Interlace Methods**
Showing the horizontal lines of the screen from the top to the bottom in order is called the Non-Interlace method while showing odd lines and then even lines in turn is called the Interlace method. The Non-Interlace method is used for the majority of monitors to ensure a clear image. The Interlace method is the same as that used in TVs.

- **Plug & Play**
This is a function that provides the best quality screen for the user by allowing the computer and the monitor to exchange information automatically. This monitor follows the international standard VESA DDC for the Plug & Play function.

**- Resolution**
The number of horizontal and vertical dots used to compose the screen image is called 'resolution'. This number shows the accuracy of the display. High resolution is good for performing multiple tasks as more image information can be shown on the screen.

**Example**: If the resolution is 1280 x 1024 , this means the screen is composed of 1280 horizontal dots (horizontal resolution) and 1024 vertical lines (vertical resolution).

**- DVD**
A type of digital disk technology that takes up only the benefits of CD and LD, to implement a high resolution/quality, which enables the user to enjoy clearer images.

**- DTV**
Broadcasting (Digital TV Broadcasting)
An enhanced broadcasting technology to process digital video signals using a set-top box, which implements a high resolution and clearer digital images on the screen.

**- A2**
This system uses two carriers to transmit voice data. Countries such as South Korea and Germany use this system.

**- BTSC**
Broadcast Television System Committee
The stereo broadcasting system that is used in most of the countries that have adopted the NTSC system, including the United States, Canada, Chile, Venezuela and Taiwan. It also refers to the organization that has been organized to promote its development and management.

**- EIAJ**
Electronic Industries Association of Japan.

**- RF Cable**
A round signal cable generally used for TV antennas.

**- Satellite Broadcasting**
Broadcasting service provided via satellite. Enables high picture quality and clear sound throughout the country regardless of the location of the viewer.

**- Sound Balance**
Balances the levels of the sound coming from each speaker in televisions with two speakers.

**- Cable TV**
Whereas the terrestrial broadcasting is delivered via frequency signals through the air, cable broadcasting is transmitted via a cable network. In order to view cable TV, one must purchase a cable receiver and hook it up to the cable network.

**- CATV**
"CATV" refers to the broadcasting service offered at hotels, schools and other buildings through their own broadcasting system, apart from VHF or UHF broadcasting by terrestrial broadcasters. The CATV programs may include movies, entertainment and educational programs. (Different from cable TV.)
CATV can be viewed only within the area in which the CATV service is offered.

**- S-Video**
Short for "Super Video." S-Video allows up to 800 lines of horizontal resolution, enabling high-quality video.

**- VHF/UHF**
VHF indicates TV channels 2 to 13, and UHF indicates channels 14 through 69.

**- Channel Fine Tuning**
This feature allows the viewer to fine-tune the TV channel to obtain the best viewing conditions. The Samsung LCD TV has both automatic and manual channel fine-tuning features to enable the viewer to adjust their desired settings.

**- External Device Input**
External device input refers to video input from such external video device as VCR, camcorder and DVD player, separate from a TV broadcast.

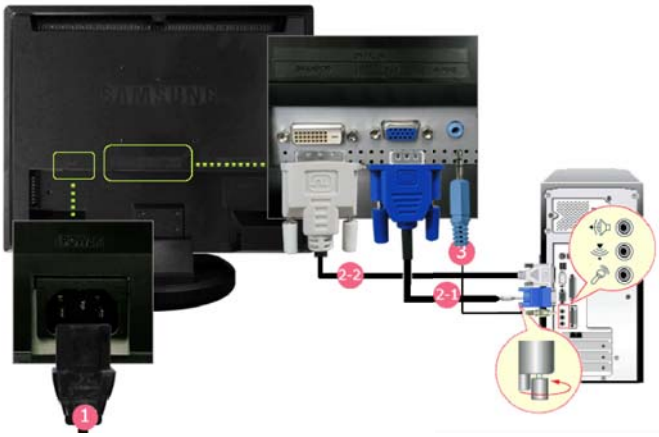
**- LNA (Low Noise Amplifier)**
This derives from artificial satellite technology that amplifies weak signals even in poor reception areas for sharper images.

**- Antenna Converter**
A connection part that is used to link a wide antenna cable (feeder cable) to the TV.

**- English Caption (= Caption Setting)**
A kind of language selection feature that provides English subtitles (caption) or character information services from broadcasting services (ex: AFKN) or video tapes (marked CC), and which are especially useful for studying English.

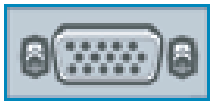
## 14-2 Connecting the Monitor

### - Connecting to a monitor




1. Connect the power cord for your monitor to the POWER on the back of the monitor.
   Plug the power cord for the monitor into a nearby outlet.

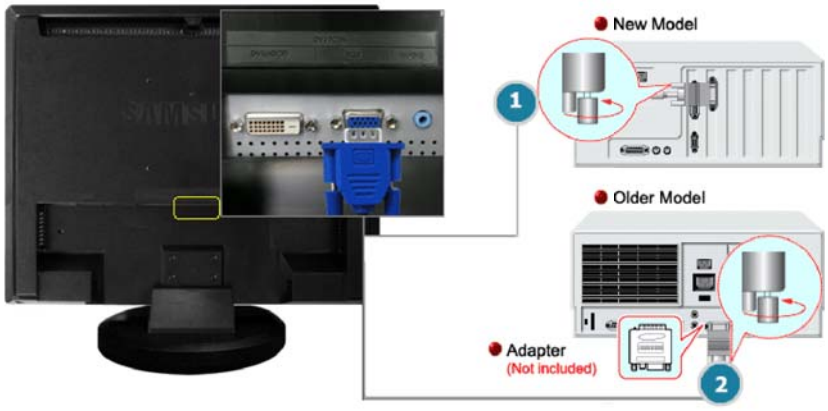
2-1. Using the D-sub (Analog) connector on the video card.
   Connect the signal cable to the 15-pin, RGB port on the back of your monitor.



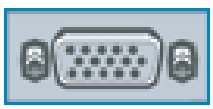
2-2. Using the DVI (Digital) connector on the video card.
   Connect the DVI Cable to the DVI Port on the back of your Monitor.

3. Connect the audio cable for your monitor to the audio port on the back of your computer.
4. Turn on both your computer and the monitor.

### -Connecting to a Macintosh




1. Using the D-sub (Analog) connector on the video card.
   Connect the signal cable to the D-SUB port on the Macintosh computer.

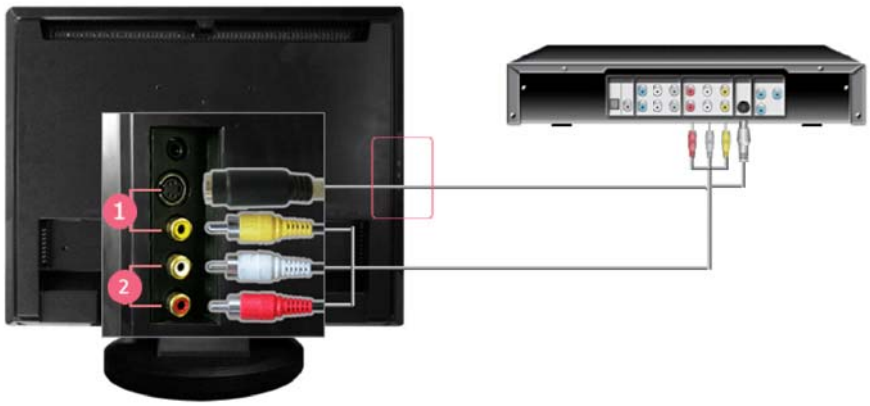


2. For older model Macintoshes, you need to adjust the resolution control DIP switch on the Macintosh adapter (optional) referring to the switch configuration table shown on its rear.

3. Turn on the monitor and Macintosh.

# 14-3 Connecting to Other devices

## - Connecting AV Devices




1. Input devices such as DVD, VCR or Camcorder are connected to the VIDEO or S-VIDEO terminal of the monitor using the Video or S-Video cable.

**∗ S-Video, Video cable and EXT(RGB) cable is optional.**

2. Connect the Audio (R) and Audio (L) terminals of a DVD, VCR or Camcorders to the monitor's R and L audio input terminals using audio cables.

3. Then, start the DVD, VCR or Camcorders with a DVD disc or tape inserted.

4. Select AV or S-Video using the SOURCE.

## - Connecting EXT.(RGB) - It only applies to AV DEVICE that supports SCART.

1. Connect a video cable between the EXT(RGB) jacks on the monitor and the EXT(RGB) jacks on the DVD Player.

2. Select Ext. using the SOURCE.

## - Connecting TV

1. Connect the CATV or antenna coaxial cable to the Antenna terminal on the rear of the monitor.
   You need to use a coaxial antenna cable.

   - When using an interior antenna terminal:
     Check the antenna terminal on the wall first and connect the antenna cable.
   - When using an outdoor antenna:
     If you are using an outdoor antenna, use a professional for installation if possible.
   - To connect the RF cable to the antenna input terminal:
     Keep the copper wire portion of the RF cable straight.

2. Turn on the monitor.

3. Select TV using SOURCE button among the external signal adjustment buttons.

4. Select a desired TV channel.

## - Connecting DVD/DTV Set Top Box

1. Connect the Audio (R) and Audio (L) outputs on the DVD / DTV set top box to the Audio (R) and Audio (L) inputs on the monitor using audio cables.

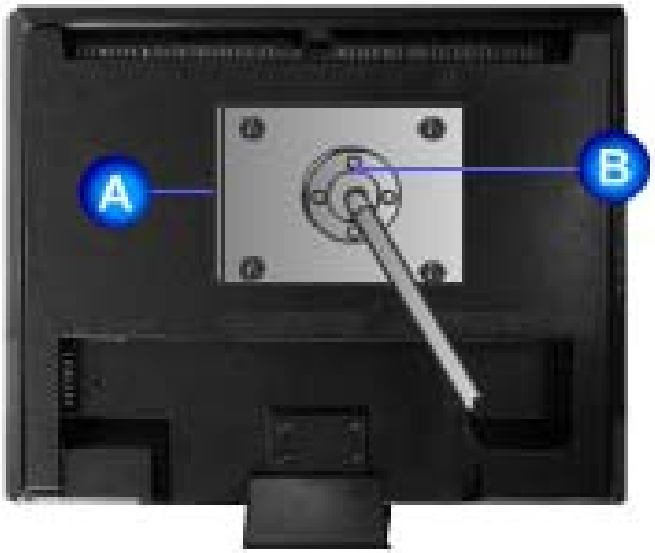
2. Connect a video cable between the component( $P_R$, $P_B$,Y) jacks on the monitor and the $P_R$, $P_B$,Y jacks on the DVD / DTV set top box.

3. Select Component using the SOURCE.

- Connecting Headphone

1. Connect your headphones to the Headphone connection terminal.

-Attaching a Base




* **This monitor accepts a 100 mm x 100 mm VESA-compliant mounting interface pad.**

### A. Monitor

### B. Mounting interface pad (Sold separately)

1. Turn off your monitor and unplug its power cord.
2. Lay the LCD monitor face-down on a flat surface with a cushion beneath it to protect the screen.
3. Remove four screws and then remove the Stand from the LCD monitor.
4. Align the Mounting Interface Pad with the holes in the Rear Cover Mounting Pad and secure it with four screws that came with the arm-type base, wall mount hanger or other base.

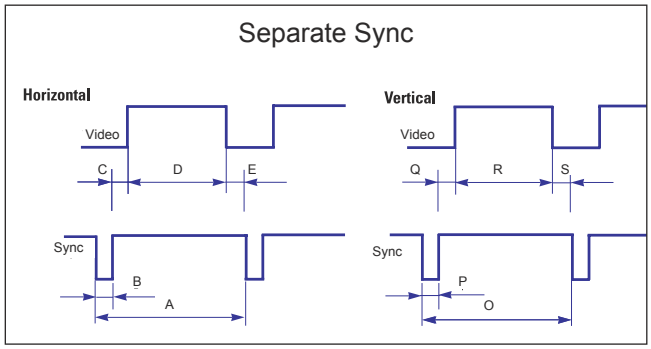
## 14-4 Pin Assignments

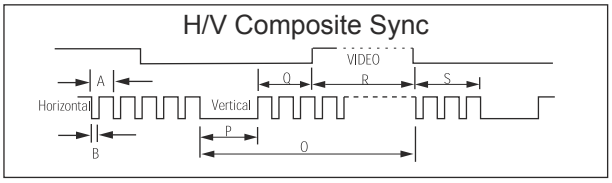
| Sync Type / Pin No. | 15-Pin Signal Cable Connector | |
|---|---|---|
| | **Separate** | **Composite** |
| 1 | Red | Red |
| 2 | Green | Green |
| 3 | Blue | Blue |
| 4 | GND | GND |
| 5 | GND (DDC Return) | GND (DDC Return) |
| 6 | GND-Red | GND-Red |
| 7 | GND-Green | GND-Green |
| 8 | GND-Blue | GND-Blue |
| 9 | DDC +5V | DDC +5V |
| 10 | CHK D_SUB | CHK D_SUB |
| 11 | GND | GND |
| 12 | DDC Data | DDC Data |
| 13 | Horizontal sync | H/V-Sync |
| 14 | Vertical sync | Not Used |
| 15 | DDC Clock | DDC Clock |

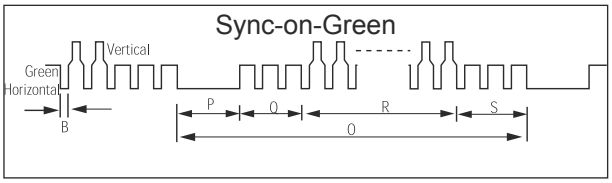
# 14-5 Timing Chart

This section of the service manual describes the timing that the computer industry recognizes as standard for computer-generated video signals.

| Mode / Timing | IBM | | VESA | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | VGA2/ 70 Hz 720 x 400 | VGA3/ 60 Hz 640 x 480 | 640/75 Hz 640 x 480 | 800/60 Hz 800 x 600 | 800/75 Hz 800 x 600 | 1024/60Hz 1024 x 768 | 1024/75Hz 1024 x 768 | 1280/60Hz 1280x1024 | 1280/75Hz 1280x1024 (Analog Only) | 1440/60Hz 1440x900 | 1440/75Hz 1440x900 |
| fH (kHz) | 31.469 | 31.469 | 37.500 | 35.879 | 46.875 | 48.363 | 60.023 | 63.981 | 79.976 | 55.935 | 75.000 |
| A µsec | 31.777 | 31.778 | 26.667 | 26.400 | 21.333 | 20.677 | 16.660 | 11.852 | 12.504 | 17.878 | 14.157 |
| B µsec | 3.813 | 3.813 | 2.032 | 3.200 | 1.616 | 2.092 | 1.219 | 1.037 | 1.067 | 1.427 | 1.112 |
| C µsec | 1.589 | 1.589 | 3.810 | 2.200 | 3.232 | 2.462 | 2.235 | 2.296 | 1.837 | 2.178 | 1.814 |
| D µsec | 26.058 | 26.058 | 20.317 | 20.000 | 16.162 | 15.754 | 13.003 | 9.259 | 9.481 | 13.521 | 10.530 |
| E µsec | 0.318 | 0.318 | 0.508 | 1.000 | 0.323 | 0.369 | 0.203 | 0.444 | 0.119 | 0.751 | 0.702 |
| fV (Hz) | 70.087 | 59.940 | 75.000 | 60.317 | 75.000 | 60.004 | 75.029 | 60.020 | 75.025 | 59.887 | 75.000 |
| O msec | 14.268 | 16.683 | 13.333 | 16.579 | 13.333 | 16.666 | 13.328 | 60.020 | 13.329 | 16.698 | 13.336 |
| P msec | 0.064 | 0.064 | 0.080 | 0.106 | 0.064 | 0.124 | 0.050 | 0.047 | 0.038 | 0.107 | 0.085 |
| Q msec | 0.858 | 0.794 | 0.427 | 0.607 | 0.448 | 0.600 | 0.466 | 0.594 | 0.475 | 0.447 | 0.467 |
| R msec | 13.155 | 15.761 | 12.800 | 15.840 | 12.800 | 15.880 | 12.795 | 15.630 | 12.804 | 16.090 | 12.741 |
| S msec | 0.191 | 0.064 | 0.027 | 0.026 | 0.021 | 0.062 | 0.017 | 0.016 | 0.013 | 0.054 | 0.042 |
| Clock Freq. (MHz) | 28.322 | 25.175 | 31.500 | 40.000 | 49.500 | 75.000 | 78.750 | 108.000 | 135.000 | 106.500 | 136.750 |
| Polarity H.Sync | Negative | Negative | Negative | Positive | Positive | Negative | Positive | Positive | Positive | Negative | Negative |
| V.Sync | Positive | Negative | Negative | Positive | Positive | Negative | Positive | Positive | Positive | Positive | Positive |
| Remark | Separate | Separate | Separate | Separate | Separate | Separate | Separate | Separate | Separate | Separate | Separate |




| | | | |
|---|---|---|---|
| A : Line time total | B : Horizontal sync width | O : Frame time total | P : Vertical sync width |
| C : Back porch | D : Active time | Q : Back porch | R : Active time |
| E : Front porch | | S : Front porch | |

## 14-6 Preset Timing Modes

-If the signal transferred from the computer is the same as the following Preset Timing Modes, the screen will be adjusted automatically. However, if the signal differs, the screen may go blank while the power LED is on. Refer to the video card manual and adjust the screen as follows.

Table 1. Preset Timing

| Display Mode | Horizontal Frequency (kHz) | Vertical Frequency (Hz) | Pixel Clock (MHz) | Sync Polarity (H/V) |
|---|---|---|---|---|
| MAC, 640 x 480 | 35.000 | 66.667 | 30.240 | -/- |
| MAC, 832 x 624 | 49.726 | 74.551 | 57.284 | -/- |
| MAC,1152 x870 | 68.681 | 75.062 | 100.000 | -/- |
| IBM, 640 x 350 | 31.469 | 70.086 | 25.175 | +/- |
| IBM, 640 x 480 | 31.469 | 59.940 | 25.175 | -/- |
| IBM, 720 x 400 | 31.469 | 70.087 | 28.322 | -/+ |
| VESA, 640 x 480 | 37.500 | 75.000 | 31.500 | -/- |
| VESA, 640 x 480 | 37.861 | 72.809 | 31.500 | -/- |
| VESA, 800 x 600 | 35.156 | 56.250 | 36.000 | +,-/+,- |
| VESA, 800 x 600 | 37.879 | 60.317 | 40.000 | +/+ |
| VESA, 800 x 600 | 48.077 | 72.188 | 50.000 | +/+ |
| VESA, 800 x 600 | 46.875 | 75.000 | 49.500 | +/+ |
| VESA, 1024 x 768 | 48.363 | 60.004 | 65.000 | -/- |
| VESA, 1024 x 768 | 56.476 | 70.069 | 75.000 | -/- |
| VESA, 1024 x 768 | 60.023 | 75.029 | 78.750 | +/+ |
| VESA, 1280 X 960 | 60.000 | 60.000 | 108.00 | +/+ |
| VESA, 1280 X1024 | 63.981 | 60.020 | 108.00 | +/+ |
| VESA, 1280X1024 | 79.976 | 75.025 | 135.00 | +/+ |
| VESA, 1440 x 900 | 55.935 | 59.887 | 106.5 | -/+ |

**Horizontal Frequency**
The time to scan one line connecting the right edge to the left edge of the screen horizontally is called Horizontal Cycle and the inverse number of the Horizontal Cycle is called Horizontal Frequency. Unit: kHz

**Vertical Frequency**
Like a fluorescent lamp, the screen has to repeat the same image many times per second to display an image to the user. The frequency of this repetition is called Vertical Frequency or Refresh Rate. Unit: Hz

# 14-7 Panel Description

| Maker | VENDOR P/N | PANEL_CODE | PANEL_ABB | STICKER_CODE | Remarks |
|---|---|---|---|---|---|
| SEC | LT140X1-002 | BN07-00004A | SA | BN68-00239H | - |
| SEC | LT150XS-L01 | BN07-00009A | SB | | - |
| SEC | LT150XS-L01-B | BN07-00022A | SC | | - |
| SEC | LTM150XS-L02 | BN07-00005A | SD | | - |
| SEC | LT181E2-132 | BN07-00001A | SE | | - |
| SEC | LT150XS-T01 | BN07-00010A | SF | | - |
| SEC | LTM181E3-132 | BN07-00019A | SG | | - |
| SEC | LT170E2-131 | BN07-10001D | SH | | - |
| SEC | LT181E2-131 | BN07-10001E | SJ | | - |
| SEC | LTM170E4-L01 | BN07-00018A | SK | | - |
| SEC | LTM240W1-L01 | BN07-00015A | SL | | - |
| SEC | LTM213U3-L01 | BN07-00016A | SM | | - |
| SEC | LTM150XH-L01 | BN07-00026A | SN | | |
| SEC | LTM150XH-L03 | BN07-00027A | SP | | - |
| SEC | LTM150XS-L01 | BN07-00032A | SQ | | DELL(ZPD) |
| SEC | LTM181E4-L01 | BN07-00034A | SR | | PVA |
| SEC | LTM170EH-L01 | BN07-00036A | SS | | TN |
| SEC | LTM170E5-L01 | BN07-00037A | SU | | PVA |
| SEC | LTM150XH-L11 | BN07-00041A | SV | | - |
| SEC | LTM213U4-L01 | BN07-00039A | SW | | PVA |
| SEC | LTM150XH-L01(ZPD) | BN07-00045A | SX | | ZPD |
| SEC | LTM150XH-L04 | BN07-00046A | SY | | New panel with high brightness |
| SEC | LTM170W1-L01 | BN07-00047A | SZ | | Panel for TV |
| SEC | LTM150XH-L06 | BN07-00053A | EA | | Panel for TV/ High luminance for 450cd _ SONY&EOS Team Panel for TV |
| SEC | LTM153W1-L01 | BN07-00054A | EB | | Use NIKE MODEL |
| SEC | LTM170EH-L05 | BN07-00055A | EC | | Panel EOS proj. for high brightness of 17" EH-L05 |
| SEC | LTM170E5-L03 | BN07-00056A | ED | | Dell 1702FP pro. E4. EH mechanical Compatible |
| SEC | LTM190E1-L01 | BN07-00057A | EE | | DELL 1900 FP |
| SEC | LTM181E5-L01 | BN07-00061A | EF | | 18" narrow bezel GH18PS |
| SEC | LTM150XP-L01 | BN07-00065A | EG | | AMLCD PVA PANEL |
| SEC | LTM240W1-L02 | BN07-00062A | EH | | Panel for 15" Wide TV |
| SEC | LTM170EU-L01 | BN07-00071A | EJ | | Slim design, TN |
| SEC | LTM170E5-L04 | BN07-00072A | EK | | E5-L04 6 bits FRC... for IBM |
| SEC | LTA220W1-L01 | BN07-00074A | EL | | Panel for 22" TV |
| SEC | LTM170E6-L02 | BN07-00075A | EM | | AMLCD Narrow & slim design 17" PVA mode |
| SEC | LTM170W1-L01 | BN07-00082A | EN | | LTM170W1-L01 ZPD panel |
| SEC | LTM170EH-L01 | BN07-00080A | EP | | LTM170EH-L01 ZPD panel |
| SEC | LTM170E5-L01 | BN07-00081A | EQ | | LTM170E5-L01 ZPD panel |
| SEC | LTM170EH-L05 | BN07-00083A | ER | | LTM170EH-L05 ZPD panel |
| SEC | LTM170E5-L03 | BN07-00084A | ES | | LTM170E5-L03 ZPD panel |
| SEC | LTM170EU-L01 | BN07-00085A | ET | | LTM170EU-L01 ZPD panel |
| SEC | LTM170E5-L04 | BN07-00086A | EU | | LTM170E5-L04 ZPD panel |
| SEC | LTM170E6-L02 | BN07-00087A | EV | | LTM170E6-L02 ZPD panel |
| SEC | LTM150XH-L06 | BN07-00091A | EW | | Color coordinates change for LCD TV |
| SEC | LTM153W1-L01 | BN07-00092A | EX | | AMLCD WIDE 15",9/10 |
| SEC | LTM170W1-L01 | BN07-00100A | EY | | Color Coordinates change code management |
| SEC | LTM170EH-L05 | BN07-00097A | EZ | | LTM170E5-L05 Color Coordinates Change Panel Code |

| Maker | VENDOR P/N | PANEL_CODE | PANEL_ABB | STICKER_CODE | Remarks |
|---|---|---|---|---|---|
| SEC | LTA400W1-L01 | BN07-00109A | S1 | | PANEL of AMLCD 40" TV |
| SEC | LTM153W1-L01 | BN07-00110A | S2 | | Color coordinates change 0.280/0.290, 10000k & ZPD Panel |
| SEC | LTM150XH-L06 | BN07-00111A | S3 | | Color coordinates change 0.280/0.290, 10000k & ZPD Panel |
| SEC | LTM170W1-L01 | BN07-00112A | S4 | | Color coordinates change 0.280/0.290, 10000k & ZPD Panel |
| SEC | LTM170EH-L05 | BN07-00113A | S5 | | Color coordinates change 0.280/0.290, 10000k & ZPD Panel |
| SEC | LTM220W1-L01 | BN07-00114A | S6 | | ZPD Panel for AMLCD 22" TV |
| SEC | LTM150XH-L06 | BN07-00117A | S7 | | ZPD Panel code |
| SEC | LTM153W1-L01 | BN07-00118A | S8 | | ZPD Panel code |
| SEC | LTM170WP-L01 | BN07-00119A | S9 | | PVA Panel for NIKE |
| SEC | LTM213U4-L01 | BN07-00039A | E1 | | 21.3" NARROW |
| SEC | LTA260W1-L01 | BN07-00121A | E2 | | VENUS |
| SEC | LTA220W1-L01 | BN07-00074B | E3 | | "Panel B-level panel code for 22"" TV Panel " |
| SEC | LTA320W1-L01 | BN07-00108A | E4 | | "Panel for AMLCD 32"" TV" |
| SEC | LTM213U4-L01 | BN07-00124A | E5 | | NARROW BEZEL 21 " PANEL |
| SEC | LTM170E6-L04 | BN07-00129A | E6 | | "HIGHLAND 17"" LOW PANEL (Panel only for TCO03)" |
| SEC | LTM190E1-L01 | BN07-00088A | E7 | | LTM190E1-L01 ZPD panel |
| SEC | M150X4-L06 | BN07-00137A | E8 | | 15" Narrow & Slim panel |
| SEC | LTA170V1 | BN07-00139A | E9 | | "17"" Panel for Muse 4:3 VGA TV" |
| SEC | LTM190E1-L02 | BN07-00128A | E10 | | "New Panel from AMLCDl, Specification : 6bit Driver IC" |
| SEC | LTM170EX-L01 | BN07-00143A | E11 | | "Development new Panel from AMLCD" |
| SEC | LTM170E8-L01 | BN07-00144A | E12 | | "Development new Panel from AMLCD" |
| SEC | LTM170E6-L04 | BN07-00129B | E13 | | "ZPD panel for AMLCD (Panel only for TCO03)" |
| SEC | LTA320W1-L02 | BN07-00108B | E14 | | "Creat B-level Panel code for AMLCD 32"" TV" |
| SEC | LTM190E1-L03 | BN07-00151A | E15 | | "Development new 19"" Panel form AMLCD (Panel only for TCO03)" |
| SEC | LTM240W1-L03 | BN07-00134A | E16 | | "AMLCD 24"" panel development" |
| SEC | LTM190E1-L02 | BN07-00128B | E17 | | "New Panel from AMLCD, Specification : 6bit Driver IC(ZPD)" |
| SEC | LTM190E4-L01 | BN07-00145A | E18 | | "AMLCD 24"" new panel development" |
| SEC | LTM170E8-L01 | BN07-00158A | E19 | | "ZPD code derivation" |
| SEC | LTM170EX-L01 | BN07-00159A | E20 | | "ZPD code derivation" |
| SEC | LTM190E1-L03 | BN07-00151B | E21 | | "Creat new panel code for AMLCD 19"" (Panel only for TCO03)" |
| SEC | LTA460H1-L01 | BN07-00157A | E22 | | "creat panel code for AMLCD 46"" TV " |
| SEC | LTM170EU-L11 | BN07-00160A | E23 | | "creat new panel code for AMLCD 17"" (Panel only for TCO03)" |
| SEC | LTM240W1-L03 | BN07-00134B | E24 | | "24"" panel ZPD code derivation" |
| SEC | LTM190E4-L01 | BN07-00145B | E25 | | "AMLCD 19"" ZPD Panel code derivation" |
| SEC | LTM240W1-L03 | BN07-00134B | E26 | | "24"" panel ZPD code derivation" |
| SEC | LTM150XO-L01 | BN07-00164A | E27 | | "AMLCD 15"" XO-L01 new panel development" |
| SEC | LTM150XO-L01 | BN07-00164B | E28 | | "AMLCD 15"" XO-L01 ZPD code derivation" |
| SEC | LTM170EU-L11 | BN07-00160B | E29 | | "AMLCD 17"" NEW panel code derivation" |
| SEC | LTA320W2-L01 | BN07-00172A | SPZ | | AMLCD 32" NEW panel |
| SEC | LTM213U4-L01 | BN07-00124B | SPZ | | 21.3" Narrow PANEL ZPD Panel derivation |
| SEC | LTM170EU-L11 | BN07-00189A | STH | | AMLCD EU-L11 Pb free panel code derivation |
| SEC | LTM170EU-L11 | BN07-00189B | STZ | | AMLCD EU-L11 Pb free panel ZPD code derivation |
| SEC | LTM240W1-L04 | BN07-00188A | SPH | | 24" A-DCC new panel development |
| SEC | LTM240W1-L04 | BN07-00188B | SPZ | | 24" A-DCC panel ZPD code derivation |
| SEC | LTM190EX-L01 | BN07-00191A | STH | | AMLCD 19" TN new Panel |
| SEC | LTM190EX-L02 | BN07-00191B | STZ | | AMLCD 19" TN new Panel ZPD derivation |
| SEC | LTA230W1-L02 | BN07-00184A | SPZ | | AMLCD 23" 16:9 new Panel |

| Maker | VENDOR P/N | PANEL_CODE | PANEL_ABB | STICKER_CODE | Remarks |
|---|---|---|---|---|---|
| SEC | LTA260W2-L01 | BN07-00185A | SPZ | | AMLCD 26" 16:9 new Panel |
| SEC | LTM240M1-L01 | BN07-00195A | SPH | | 24" panel with high brightness deveiopment |
| SEC | LTA400W2-L01 | BN07-00186A | SPZ | | AMLCD 40" 16:9 new Panel |
| SEC | LTM150XO-L01 | BN07-00197A | STH | | AMLCD 15" XO-L01 Pb free panel code |
| SEC | LTM150XO-L01 | BN07-00197B | STZ | | AMLCD 15" XO-L01 Pb free panel ZPD code |
| SEC | LTM170EU-L21 | BN07-00202A | STZ | | AMLCD EU-L21 ZPD new code derivation |
| SEC | LTA460W2-L03 | BN07-00187A | SPZ | | BEETOVEN 46"ZPD new panel |
| SEC | LTM240M1-L01 | BN07-00195B | SPZ | | 24" igh brightness panel ZPD code derivation |
| SEC | M170EX-L21 | BN07-00206A | STZ | | AMLCD LTM170EX-L21 ZPD new code derivation |
| SEC | LTA460H3-L01 | BN07-00200A | SPZ | | AMLCD 46" LED BLU panel |
| SEC | LTM170EU-L15 | BN07-00214A | STZ | | AMLCD EU-L15 TV high brightness ZPD new code derivation |
| SEC | LTM170E8-L21 | BN07-00218A | SPZ | | AMLCD LTM170E8-L21 PVA ZPD new code derivation |
| SEC | LTM190EX-L21 | BN07-00222A | STZ | | DISPLAY LCD |
| SEC | LTM201U1-L01 | BN07-00190B | SPZ | | AMLCD 20.1" Normal panel ZPD code derivation |
| SEC | LTM190E4-L21 | BN07-00223A | SPZ | | HAYDN 17" PZD code PANEL derivation |
| SEC | LTA570H1-L01 | BN07-00196A | SPZ | | AMLCD 57" new panel development |
| SEC | LTM150XO-L21 | BN07-00229A | STZ | | AMLCD 15" XO-L21 8ms panel code |
| SEC | LTA260W2-L11 | BN07-00239A | SPZ | | AMLCD 26" 16:9 7Line new Panel |
| SEC | LTA400WS-LH1 | BN07-00245A | SPZ | | AMLCD 40" 16:9 SPVA 90% new Panel |
| SEC | LTM213U6-L01 | BN07-00231A | SPZ | | AMLCD 21.3" PVA new Panel Code |
| SEC | LTA320WS-LH2 | BN07-00244A | SPZ | | AMLCD 32" 16:9 SPVA 90% new Panel |
| SEC | LTA400WS-LH1 | BN07-00245A | SPZ | | AMLCD 40" 16:9 SPVA 90% new Panel |
| CPT | CLAA150XG09 | BN07-00141A | PA | | "CPT 15"" Monitor new panel development" |
| CPT | CLAA170EA02 | BN07-00148A | PB | | "17"" CPT NEW development panel" |
| CPT | CLAA170EA02 | BN07-00148B | PC | | "17"" CPT ZPD panel code derivation" |
| CPT | CLAA150XG09 | BN07-00141B | PTZ | | "CPT 15"" panel ZPD code derivation (GOYA-PJT)" |
| CPT | CLAA150XP01 | BN07-00173A | PTH | | CPT 15" PSWG code derivation |
| CPT | CLAA150XP01 | BN07-00173B | PTZ | | CPT 15" PSWG panel ZPD code |
| CPT | CLAA170EA07 | BN07-00174A | PTH | | "CPT 17"" PSWG panel code derivation |
| CPT | CLAA170EA07 | BN07-00174B | PTZ | | CPT 17""""" PSWG type new Panel code""" |
| CPT | CLAA170EA07 | BN07-00174B | PTZ | | CPT 17" PSWG type new Panel code |
| CPT | CLAA170EA07Q | BN07-00220A | PTZ | | CPT 17" PSWG R/T 8msec code derivation |
| CPT | CLAA170EA07Q | BN07-00220B | PTH | | CPT 17" PSWG R/T 8msec HPD code derivation |
| CPT | CLAA150XP01F | BN07-00236A | PTZ | | CPT 15" PSWG panel ZPD & Lead free code derivation |
| TOSHIBA | LTM15C419(A) | BN07-00002A | TA | | - |
| TOSHIBA | LTM15C423(B) | BN07-00006A | TB | | - |
| TOSHIBA | LTM18C161 | BN07-00008A | TC | | - |
| TOSHIBA | LTM15C443 | BN07-00031A | TD | | - |
| TOSHIBA | LTM15C458 | BN07-00043A | TE | | - |
| TOSHIBA | LTM15C458S | BN07-00077A | TF | | "TSB 15"" high brightness Panel" |
| TOSHIBA | LTM15C458 | BN07-00078A | TG | | Toshiba ZPD panel |
| TOSHIBA | LTM15C458S | BN07-00099A | TH | | TSB LTM15C458S ( ZPD ) |
| HANNSTAR | HSD150MX41A(A) | BN07-00020A | NA | | "TTL type" |
| HANNSTAR | HSD150MX12 | BN07-00030A | NB | | "TTL type" |
| HANNSTAR | HSD170ME13 | BN07-00180A | NTH | | Hannstar 17" TN new panel development |
| HANNSTAR | HSD170ME13 | BN07-00180B | NTZ | | Hannstar 17" TN new panel development ZPD code derivation |
| HANNSTAR | HSD190ME12 | BN07-00210A | NTZ | | Hannstar 19" TN new panel development |

| Maker | VENDOR P/N | PANEL_CODE | PANEL_ABB | STICKER_CODE | Remarks |
|---|---|---|---|---|---|
| HANNSTAR | HSD150MX17-A | BN07-00226A | NTZ | | Hannstar 15" slim panel ZPD code derivation |
| TORISAN | TM150XG-22L03(A) | BN07-00021A | RA | | - |
| TORISAN | TM150XG-26L06 | BN07-00042A | RB | | - |
| TORISAN | TM181SX-76N01 | BN07-00048A | RC | | - |
| TORISAN | TM150XG-26L06 | BN07-00059A | RD | | 15" XGA TN MODE(ZPD) |
| TORISAN | TM290WX-71N31 | BN07-00063A | RE | | "RS24NS (TORISAN 29"" NEW PANEL)" |
| TORISAN | TM396WX-71N31 | BN07-00064A | RF | | "RS24NS (TORISAN 40"" NEW PANEL)" |
| TORISAN | TM150XG-26L09 | BN07-00073A | RG | | "Panel for 15"" TV" |
| TORISAN | TM150XG-26L10 | BN07-00089A | RH | | "L10(change except D/IC) ZPD" |
| TORISAN | TM150XG-26L10 | BN07-00090A | RJ | | L10 NORMAL |
| TORISAN | TM190SX-70N01 | BN07-00098A | RK | | Torisan 19" Panel |
| TORISAN | TM181SX-76N01 | BN07-00106A | RL | | ZPD Panel code |
| TORISAN | TM190SX-70N01 | BN07-00107A | RM | | ZPD Panel code |
| TORISAN | TM290WX-71N31 | BN07-00115A | RN | | "Color Coordinates change panel for TORISAN 29"" TV" |
| TORISAN | TM396WX-71N31 | BN07-00116A | RP,Q | | "Color Coordinates change panel for TORISAN 40"" TV" |
| TORISAN | TM22OWX-71N31 | BN07-00125A | RR | | "Development TORISAN 22"" TV PANEL (ZPD)" |
| TORISAN | TM22OWX-71N31 | BN07-00127A | RS | | "Development TORISAN 22"" TV PANEL (HPD)" |
| TORISAN | TM396WX-71N32A | BN07-00150A | RT | | 120V inverter Exclusive panel |
| TORISAN | TM190SX-70N02 | BN07-00154A | RMH | | Torisan 6bit panel code Derivation |
| TORISAN | TM190SX-70N02 | BN07-00154B | RMZ | | Torisan 6bit panel code Derivation |
| TORISAN | TM150XG-A01 | BN07-00162A | RTH | | Torisan 15" Narrow & Slim panel development |
| TORISAN | TM150XG-A01 | BN07-00162B | RTZ | | Torisan 15" N&S panel ZPD code Derivation |
| SHARP | LQ181E1DG11(A) | BN07-10001C | PA | | - |
| SHARP | LQ150X1LW71 | BN07-00067A | PB | | SHARP 15" PVA PANEL |
| SHARP | LQ370T3LZ41 | BN07-00216A | FAZ | | Rome2 |
| HITACHI | TX38D12VC0CAA(A) | BN07-00003A | HA | | - |
| HITACHI | TX43DVCOCAB | BN07-00060A | HB | | 17" SXGA PVA MODE |
| HITACHI | TX43D15VC0CAB | BN07-00101A | HC | | ZPD Panel |
| HITACHI | TX51D11VC0CAB | BN07-00122A | HD | | 20.1" NARROW |
| HITACHI | TX54D11VC0CAB | BN07-00123A | HE | | 21.3" NARROW |
| HITACHI | TX80D12VC0CAB | BN07-00169A | HIZ | | "Development new panel for Hitachi 32"" TV (ZPD)" |
| HITACHI | TX54D11VC0CAB | BN07-00123B | HIZ | | Hitachi 21.3"ZPD panel |
| IBM | ITSX94S | BN07-00017A | IA | | - |
| UNIPAC | UM170E0 | BN07-00028A | UA | | Loaded by cisdba |
| HYUNDAI | HT15X13 | BN07-00035A | DA | | - |
| HYUNDAI | HT17E11-200 | BN07-00049A | DB | | TN MODE |
| HYUNDAI | HT17E11-300 | BN07-00093A | DC | | HT17E11-300 ZPD panel |
| HYUNDAI | HT17E11-400 | BN07-00094A | DD | | HT17E11-400 normal panel |
| HYUNDAI | HT17E11-400 | BN07-00095A | DE | | HT17E11-400 ZPD panel code |
| HYUNDAI | HT17E12 | BN07-00096A | DF | | HT17E12 ( Narow & slim Design ) |
| HYUNDAI | HT17E12 | BN07-00105A | DG | | ZPD Panel code |
| HYUNDAI | HT15X15-D00 | BN07-00146A | DH | | "Development for Ares 15"" Hydis TV" |
| HYUNDAI | HT15X15-D01 | BN07-00146B | DJ | | "Derivation panel HPD for Ares 15"" Hydis TV " |
| HYUNDAI | HT17E13-100 | BN07-00167A | DTH | | "PINEHURST-2(IBM) PJT 17"" HYDIS PANEL Derivation" |
| HYUNDAI | HT17E13-100 | BN07-00167B | DTZ | | "PINEHURST-2(IBM) Hydis 17"" ZPD code Derivation" |
| ACER | L170E3 | BN07-00044A | AA | | TN(ADT) |
| ACER | M170EN05 | BN07-00076A | AB | | AU 17" Panel ( Narrow & slim design ) |

| Maker | VENDOR P/N | PANEL_CODE | PANEL_ABB | STICKER_CODE | Remarks |
|---|---|---|---|---|---|
| ACER | M170EN05 | BN07-00102A | AC | | ZPD Panel code |
| ACER | M190EN02 | BN07-00170A | AMH | | "AU Monitor 19"" new panel development (P19-1S)" |
| ACER | M190EN02 | BN07-00170B | AMZ | | "AU 19"" ZPD code derivation (ZPD)" |
| ACER | M170EN06 | BN07-00171A | ATH | | "AU Monitor 17"" New panel development " |
| ACER | T260XW01 | BN07-00163A | AMZ | | "AU 26"" new panel development (NF26EO)" |
| ACER | A201SN01 | BN07-00177A | ATZ | | "AU TV panel 20.1"" TN SVGA new panel development" |
| ACER | M170EN06 | BN07-00171B | ATZ | | AU Monitor 17" ZPD code derivation |
| ACER | T315XW01 | BN07-00194A | AMZ | | AU 32" new |
| ACER | M170EG01 | BN07-00192A | ATH | | AU TN PSWG type new Panel code |
| ACER | M170EG01 | BN07-00192B | ATZ | | AU TN PSWG type NEW panel code derivation |
| ACER | M190EN04 | BN07-00203A | ATH | | AU Monitor 19" ZPD new Panel code |
| ACER | T260XW02 | BN07-00208A | AMZ | | AUO 26" ZPD panel |
| ACER | M170EG01 V8 | BN07-00221A | ATZ | | AU TN PSWG type new Panel (8msec) ZPD code derivation |
| ACER | T260XW02 | BN07-00233A | AMZ | | AUO 26" Panel new (Cosmetic spec down grade) |
| ACER | T315XW01 | BN07-00234A | AMZ | | AUO 32" Grade new (Cosmetic spec down grade) |
| ACER | M190EN03 | BN07-00224A | AMZ | | AU Monitor 19" MVA new code derivation |
| ACER | T315XW01 | BN07-00237A | AMZ | | LCD TV VE project new |
| ACER | T315XW01 | BN07-00238A | AMZ | | LCD TV VE project new |
| ACER | M201UN02 V3 | BN07-00168A | AMZ | | |
| CHIMEI | M170E3-LO1 | BN07-00050A | CA | | TN PANEL |
| CHIMEI | M150X3-L01 | BN07-00051A | CB | | COMPATIBLE |
| CHIMEI | M170E4-L01 | BN07-00052A | CC | | MVA PANEL |
| CHIMEI | M150X2-L01 | BN07-00066A | CD | | CHIME 15"I PVA PANEL |
| CHIMEI | M150X3-L01 | BN07-00079A | CE | | Chimei ZPD panel |
| CHIMEI | M170E3-L01 | BN07-00103A | CF | | ZPD Panel code |
| CHIMEI | M170E4-L01 | BN07-00104A | CG | | ZPD Panel code |
| CHIMEI | V296W1-L01 | BN07-00120A | CH | | MVA |
| CHIMEI | M170E6-L02 | BN07-00126A | CJ | | HIGHLAND 17" LOW PANEL |
| CHIMEI | M190E2-L01 | BN07-00131A | CK | | GH19AS,BS CHIMEI PANEL |
| CHIMEI | M150X4-L06 | BN07-00137A | CL | | 15" Narrow & Slim panel |
| CHIMEI | M170E6-L01 | BN07-00133A | CM | | "2003-03-11 vendor change" |
| CHIMEI | M170E6-L01 | BN07-00133B | CN | | ZPD derivation panel |
| CHIMEI | V201V1-T01 | BN07-00135A | CP | | CHIMEI 20.1" panel development |
| CHIMEI | M170E6-L02 | BN07-00126B | CQ | | "HIGHLAND 17"" LOW PANEL ZPD derivation panel" |
| CHIMEI | M170E6-L05 | BN07-00152A | CR | | "CMO 17"" new panel development code" |
| CHIMEI | M170E6-L05 | BN07-00152B | CS | | "CMO 17"" ZPD panel code derivation" |
| CHIMEI | M150X4-L06 | BN07-00137B | CT | | Chimei 15" Narrow & Slim panel ZPD derivation |
| CHIMEI | M170E5-L05 | BN07-00165A | CTH | | CMO 17" new panel development code (GOYA2-PJT) |
| CHIMEI | M170E5-L05 | BN07-00165B | CTZ | | CMO 17" ZPD panel(GOYA2-PJT) |
| CHIMEI | V230W1-L02 | BN07-00209A | CMZ | | CMO 23" development |
| CHIMEI | V320B1-L01 | BN07-00207A | CMZ | | CMO 32" development |
| CHIMEI | V270W1-L01 | BN07-00136A | CMZ | | CHI MEI 27" panel development |
| NEC | SVA150XG04TB | BN07-00225A | BTZ | | SVA NEC 15" panel ZPD code |

# Memo

# 6 Electrical Parts List

-You can search for updated part codes through ITSELF web site.
URL : http://itself.sec.samsung.co.kr/

## 6-1 LS19DOCSS/EDC Parts List

| Level | Loc. No. | Code No. | Description & Specification | Q'ty | SA/SNA |
|---|---|---|---|---|---|
| | | LS19DOCSS/EDC | 940MW,SGN4/S19AV-LDO,19,LCD-MO,NETHERLAN | | |
| 0.1 | M0001 | BN90-00803L | ASSY COVER FRONT;LS19DOCSS/EDC,940MW,TCO | 1 | S.N.A |
| ..2 | M0081 | 6003-000275 | SCREW-TAPTITE;BH,+,-,B,M3,L10,ZPC(BLK),S | 3 | S.N.A |
| ..2 | T0003 | BN96-03793A | ASSY COVER P-FRONT;LS19DOC,ABS HB,GR70(S | 1 | S.A |
| ...3 | M0081 | 6003-000275 | SCREW-TAPTITE;BH,+,-,B,M3,L10,ZPC(BLK),S | 3 | S.N.A |
| ...3 | M0081 | 6006-001096 | SCREW-TAPTITE;BH,+,WP,B,M4.0,L12,ZPC(BLK | 4 | S.N.A |
| ...3 | M0112 | BN63-02613A | COVER-FRONT;LS19DOW,ABS,T2.5,HB,GR70,AML | 1 | S.N.A |
| ...3 | M0007 | BN64-00408A | KNOB-FUNCTION;DV19WS,ABS,T2.0,HB | 1 | S.N.A |
| ...3 | T0059 | BN64-00409A | INDICATOR LED;DV19WS,ACRYL HB,CLEAR | 1 | S.N.A |
| ...3 | M0145 | BN96-02793A | ASSY BOARD P-FUNCTION;DVORAK,CT5000-3880 | 1 | S.A |
| ...3 | T0175 | BN96-03734A | ASSY SPEAKER P;16¥Ø,Dvorak, 19, VE Type, | 1 | S.A |
| ...3 | T0069 | AA63-60001Q | SPACER-FELT;-,FELT,-,-,-,BLK,T0.35,-,150 | 6 | S.N.A |
| ...3 | T0175 | BN96-03733B | ASSY SPEAKER P;16ohm,Dvorak 19",3W,2pin, | 1 | S.A |
| 0.1 | M0002 | BN90-00813A | ASSY COVER REAR;LS19DOWSS/XAA,DO19WS | 1 | S.N.A |
| ..2 | M0013 | BN96-02503A | ASSY COVER P-REAR;LS19DOW,HIPS HB,BK24 | 1 | S.A |
| ...3 | M0113 | BN61-00377A | BRACKET-VESA;GOYA19"(193V),SECC,T1.0 | 1 | S.A |
| ...3 | M0279 | BN63-01140A | FELT;MUSE20",FELT,1.0,122,122 | 1 | S.N.A |
| ...3 | M0006 | BN63-02127A | COVER-REAR;LS19DOW,HIPS,T2.5,HB,BK24 | 1 | S.N.A |
| 0.1 | M0216 | BN90-00814A | ASSY STAND;LS19DOWSS/XAA,DO19WS | 1 | S.N.A |
| ..2 | STD | BN96-02966A | ASSY STAND P-BODY;LS19DOW,HIPS HB,BK24,Z | 1 | S.A |
| ...3 | M0081 | 6003-000275 | SCREW-TAPTITE;BH,+,-,B,M3,L10,ZPC(BLK),S | 4 | S.N.A |
| ...3 | | BN63-02128A | COVER-STAND FRONT;LS19DOW,HIPS,T2.5,HB,B | 1 | S.N.A |
| ...3 | | BN63-02129A | COVER-STAND REAR;LS19DOW,HIPS,T2.5,HB,BK | 1 | S.N.A |
| ...3 | T0054 | BN96-02967A | ASSY HINGE P;LS19DOW,ZNDC | 1 | S.N.A |
| 0.1 | M0017 | BN91-00957F | ASSY CHASSIS-STB;LS19DOWSS/EDC,DO19WS | 1 | S.A |
| ..2 | M0014 | BN94-00763F | ASSY PCB MAIN;LS19DOWSS/EDC,DO19WS | 1 | S.N.A |
| ...3 | T0245 | 0202-001522 | SOLDER-WIRE FLUX;LFA3-107,-,D1.2,96.5Sn/ | 1 | S.N.A |
| ...3 | IC012 | 1203-000165 | IC-POSI.ADJUST REG.;78R12,TO-220,4P,-,PL | 1 | S.A |
| ...3 | FT702 | 2904-001179 | FILTER-SAW;36.125MHz,-,32.65-39.6MHz/0.5 | 1 | S.A |
| ...3 | CN104 | 3701-001173 | CONNECTOR-DVI;24P,3R,FEMALE,ANGLE,AUF | 1 | S.A |
| ...3 | CN101 | 3701-001219 | CONNECTOR-DSUB;15P,3R,FEMALE,ANGLE,AUF | 1 | S.A |
| ...3 | CN330 | 3711-004712 | HEADER-BOARD TO CABLE;BOX,9P,1R,2mm,STRA | 1 | S.A |
| ...3 | JA330 | 3722-000143 | JACK-PHONE;1P(VER),AG,BLK,ANGLE | 1 | S.A |
| ...3 | CN110 | 3722-000183 | JACK-SCART;21P,SN,BLK | 1 | S.A |
| ...3 | JA333 | 3722-001782 | JACK-PIN;1P,SN,WHT,ANGLE | 1 | S.A |
| ...3 | JA333 | 3722-001784 | JACK-PIN;1P,SN,RED,ANGLE | 1 | S.A |
| ...3 | CN107 | 3722-002081 | JACK-EAR PHONE;5P/2C,-,SnPb,L-BLU,- | 1 | S.A |
| ...3 | JA333 | 3722-002267 | JACK-PIN;3P,AU,RED/WHT/YEL,ANGLE | 1 | S.A |
| ...3 | CN105 | 3722-002275 | JACK-DIN;4P,-,SN,BLK,- | 1 | S.A |
| ...3 | JA333 | 3722-002389 | JACK-PIN;3P,AU,RED/BLU/GRN,ANGLE | 1 | S.A |
| ...3 | CIS3 | BN40-00035A | TUNER;TDQ-6FL/W125S,TDQ-6FL/W125S,PAL Hy | 1 | S.A |
| ...3 | CIS7 | BN63-02133A | SHIELD-JACK;DV19WS,SECC,T0.8 | 1 | S.N.A |
| ...3 | T0376 | BN63-02134A | SHIELD-VIDEO;LS19DOW,SPTE,T0.2 | 1 | S.N.A |
| ...3 | T0174 | BN97-00674B | ASSY SMD;LS19DOWSS/XAA,DO19WS | 1 | S.N.A |
| ....4 | D100 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |
| ....4 | D101 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |
| ....4 | D113 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |
| ....4 | D114 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |
| ....4 | D115 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |
| ....4 | D119 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |
| ....4 | D120 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |
| ....4 | D121 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |
| ....4 | D122 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |
| ....4 | D123 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |

| Level | Loc. No. | Code No. | Description & Specification | Q'ty | SA/SNA |
|---|---|---|---|---|---|
| ....4 | D124 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |
| ....4 | D125 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |
| ....4 | D126 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |
| ....4 | D130 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |
| ....4 | D700 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |
| ....4 | D701 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |
| ....4 | D702 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |
| ....4 | D400 | 0402-000553 | DIODE-SCHOTTKY;SS24/B240,40V,2000mA,DO-2 | 1 | S.A |
| ....4 | D102 | 0403-000579 | DIODE-ZENER;BZX84C5V1,4.8-5.4V,200mW,SOT | 1 | S.A |
| ....4 | D108 | 0403-000579 | DIODE-ZENER;BZX84C5V1,4.8-5.4V,200mW,SOT | 1 | S.A |
| ....4 | D109 | 0403-000579 | DIODE-ZENER;BZX84C5V1,4.8-5.4V,200mW,SOT | 1 | S.A |
| ....4 | D110 | 0403-000579 | DIODE-ZENER;BZX84C5V1,4.8-5.4V,200mW,SOT | 1 | S.A |
| ....4 | D111 | 0403-000579 | DIODE-ZENER;BZX84C5V1,4.8-5.4V,200mW,SOT | 1 | S.A |
| ....4 | D112 | 0403-000579 | DIODE-ZENER;BZX84C5V1,4.8-5.4V,200mW,SOT | 1 | S.A |
| ....4 | D116 | 0403-000579 | DIODE-ZENER;BZX84C5V1,4.8-5.4V,200mW,SOT | 1 | S.A |
| ....4 | D117 | 0403-000579 | DIODE-ZENER;BZX84C5V1,4.8-5.4V,200mW,SOT | 1 | S.A |
| ....4 | D118 | 0403-000579 | DIODE-ZENER;BZX84C5V1,4.8-5.4V,200mW,SOT | 1 | S.A |
| ....4 | D145 | 0403-000579 | DIODE-ZENER;BZX84C5V1,4.8-5.4V,200mW,SOT | 1 | S.A |
| ....4 | ZD700 | 0403-001382 | DIODE-ZENER;UDZ33B,32.15-33.79V,200mW,SO | 1 | S.A |
| ....4 | D131 | 0403-001435 | DIODE-ZENER;QZX363C5V6,5.32-5.88V,200MW, | 1 | S.A |
| ....4 | D146 | 0403-001435 | DIODE-ZENER;QZX363C5V6,5.32-5.88V,200MW, | 1 | S.A |
| ....4 | D147 | 0403-001435 | DIODE-ZENER;QZX363C5V6,5.32-5.88V,200MW, | 1 | S.A |
| ....4 | D103 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D104 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D105 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D106 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D107 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D127 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D128 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D129 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D132 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D133 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D134 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D135 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D136 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D137 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D138 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D139 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D140 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D141 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D142 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D143 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D144 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | Q102 | 0501-000280 | TR-SMALL SIGNAL;KSA1182,PNP,150MW,SOT-23 | 1 | S.A |
| ....4 | Q700 | 0501-000344 | TR-SMALL SIGNAL;KSC1623-G,NPN,200mW,SOT- | 1 | S.A |
| ....4 | Q100 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | S.A |
| ....4 | Q103 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | S.A |
| ....4 | Q300 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | S.A |
| ....4 | Q400 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | S.A |
| ....4 | Q401 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | S.A |
| ....4 | Q402 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | S.A |
| ....4 | Q403 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | S.A |
| ....4 | Q404 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | S.A |
| ....4 | Q405 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | S.A |
| ....4 | Q406 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | S.A |
| ....4 | Q407 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | S.A |
| ....4 | Q408 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | S.A |
| ....4 | Q409 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | S.A |
| ....4 | Q410 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | S.A |
| ....4 | Q409 | 0505-001170 | FET-SILICON;SI9933ADY-T1,P,-20V,3.4A,0.0 | 1 | S.A |
| ....4 | Q409 | 0505-001170 | FET-SILICON;SI9933ADY-T1,P,-20V,3.4A,0.0 | 1 | S.A |
| ....4 | IC104 | 0801-002404 | IC-CMOS LOGIC;74VHC4066,ANALOG SWITCH,SO | 1 | S.A |
| ....4 | IC104 | 0801-002709 | IC-CMOS LOGIC;74HC373,D FLIP-FLOP,TSSOP, | 1 | S.A |

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|---|---|---|---|---|---|
| ....4 | IC104 | 0801-002899 | IC-CMOS LOGIC;CD4069UBC,INVERTER,SOIC,14 | 1 | S.A |
| ....4 | IC104 | 0802-001025 | IC-CMOS LOGIC;74LCX374,D FILP-FLOP,TSSOP | 1 | S.A |
| ....4 | IC112 | 1103-000129 | IC-EEPROM;24C02,2Kbit,256x8Bit,SOP,8P,5x | 1 | S.A |
| ....4 | IC112 | 1103-000129 | IC-EEPROM;24C02,2Kbit,256x8Bit,SOP,8P,5x | 1 | S.A |
| ....4 | IC112 | 1103-001279 | IC-EEPROM;24C32,32Kbit,4Kx8Bit,SOP,8P,5x | 1 | S.A |
| ....4 | IC113 | 1105-001284 | IC-DRAM;636165,-,16Mbit,1Mx16Bit,TSOP,50 | 1 | S.A |
| ....4 | IC113 | 1105-001284 | IC-DRAM;636165,-,16Mbit,1Mx16Bit,TSOP,50 | 1 | S.A |
| ....4 | T0085 | 1201-001980 | IC-AUDIO AMP;TDA7266D,SO,20P,16X11.1MM,- | 1 | S.A |
| ....4 | T0085 | 1201-002136 | IC-AUDIO AMP;LM4810,MSOP,8P,3x3mm,DUAL,- | 1 | S.A |
| ....4 | IC705 | 1203-001212 | IC-VOL. DETECTOR;7029,SOT-89,3P,-,PLASTI | 1 | S.A |
| ....4 | IC704 | 1203-001559 | IC-RESET;DS1834A,SOIC,8P,150MIL,PLASTIC, | 1 | S.A |
| ....4 | T0087 | 1203-001816 | IC-POSI.FIXED REG.;78M08,TO-252,3P,-,PLA | 1 | S.A |
| ....4 | IC406 | 1203-002796 | IC-DC/DC CONVERTER;AP1501-33K5A,TO-263-5 | 1 | S.A |
| ....4 | T0087 | 1203-002844 | IC-POSI.FIXED REG.;AP1117D-18A,TO-252-3L | 1 | S.A |
| ....4 | T0087 | 1203-002844 | IC-POSI.FIXED REG.;AP1117D-18A,TO-252-3L | 1 | S.A |
| ....4 | IC109 | 1205-002738 | IC-LCD CONTROLLER;SE6181LA-LF,LQFP,256P, | 1 | S.A |
| ....4 | R107 | 2007-000043 | R-CHIP;1Kohm,1%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R109 | 2007-000043 | R-CHIP;1Kohm,1%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R159 | 2007-000043 | R-CHIP;1Kohm,1%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R164 | 2007-000043 | R-CHIP;1Kohm,1%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R165 | 2007-000043 | R-CHIP;1Kohm,1%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R415 | 2007-000043 | R-CHIP;1Kohm,1%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R720 | 2007-000043 | R-CHIP;1Kohm,1%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R138 | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R140 | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R141 | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R143 | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R144 | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R145 | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R146 | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R147 | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R412 | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R413 | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R102 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R103 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R111 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R112 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R113 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R114 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R115 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R117 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R118 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R122 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R126 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R127 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R128 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R129 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R130 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R131 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R137 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R150 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R151 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R152 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R156 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R157 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R158 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R160 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R161 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R174 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R175 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R176 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R304 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R419 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |

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|---|---|---|---|---|---|
| ....4 | R430 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R431 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R432 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R433 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R434 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R435 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R436 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R437 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R438 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R439 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R440 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R441 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R442 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R443 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R445 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R446 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R704 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R705 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R717 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R719 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R723 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R724 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R725 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R726 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R728 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R732 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R733 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R734 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R735 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R750 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R751 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R424 | 2007-000076 | R-CHIP;330ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R425 | 2007-000076 | R-CHIP;330ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R116 | 2007-000077 | R-CHIP;470ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R166 | 2007-000077 | R-CHIP;470ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R727 | 2007-000077 | R-CHIP;470ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R307 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R450 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R454 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R459 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R716 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R738 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R739 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R748 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R749 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R105 | 2007-000081 | R-CHIP;2.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R177 | 2007-000082 | R-CHIP;3.3Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R133 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R134 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R135 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R300 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R302 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R303 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R306 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R308 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R417 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R420 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R448 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R449 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R452 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R453 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R457 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R703 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |

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|---|---|---|---|---|---|
| ....4 | R729 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R730 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R740 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R741 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R742 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R743 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R744 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R745 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R746 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R747 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R713 | 2007-000087 | R-CHIP;6.8Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R714 | 2007-000087 | R-CHIP;6.8Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R715 | 2007-000087 | R-CHIP;6.8Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R100 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R101 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R104 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R106 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R132 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R148 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R149 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R154 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R155 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R172 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R173 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R310 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R311 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R314 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R315 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R316 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R317 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R318 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R320 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R405 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R406 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R407 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R410 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R411 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R418 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R421 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R422 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R423 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R444 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R447 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R455 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R458 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R460 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R706 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R737 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R408 | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R409 | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R451 | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R426 | 2007-000098 | R-CHIP;56Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R427 | 2007-000098 | R-CHIP;56Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R402 | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R403 | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R404 | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R414 | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R416 | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R707 | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R791 | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R305 | 2007-000118 | R-CHIP;390ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R701 | 2007-000234 | R-CHIP;1.3Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R169 | 2007-000402 | R-CHIP;150ohm,5%,1/10W,TP,1608 | 1 | S.A |

| Level | Loc. No. | Code No. | Description & Specification | Q'ty | SA/SNA |
|---|---|---|---|---|---|
| ....4 | R702 | 2007-000402 | R-CHIP;150ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R167 | 2007-000458 | R-CHIP;18Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R711 | 2007-000659 | R-CHIP;27ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R136 | 2007-000869 | R-CHIP;4.7Kohm,1%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R428 | 2007-000869 | R-CHIP;4.7Kohm,1%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R429 | 2007-000869 | R-CHIP;4.7Kohm,1%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R721 | 2007-000869 | R-CHIP;4.7Kohm,1%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R722 | 2007-000869 | R-CHIP;4.7Kohm,1%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R712 | 2007-000882 | R-CHIP;4.7ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R153 | 2007-001002 | R-CHIP;510ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R710 | 2007-001002 | R-CHIP;510ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R708 | 2007-001134 | R-CHIP;68ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R119 | 2007-001164 | R-CHIP;75ohm,1%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R120 | 2007-001164 | R-CHIP;75ohm,1%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R121 | 2007-001164 | R-CHIP;75ohm,1%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R123 | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R124 | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R125 | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R163 | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R168 | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R752 | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R753 | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R754 | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R755 | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R756 | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R757 | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R758 | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R171 | 2007-007852 | R-CHIP;140ohm,1%,1/10W,TP,1608 | 1 | S.A |
| ....4 | RA300 | 2011-000881 | R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1. | 1 | S.A |
| ....4 | RA301 | 2011-000881 | R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1. | 1 | S.A |
| ....4 | RA302 | 2011-000881 | R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1. | 1 | S.A |
| ....4 | RA303 | 2011-000881 | R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1. | 1 | S.A |
| ....4 | RA304 | 2011-000881 | R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1. | 1 | S.A |
| ....4 | C116 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C117 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C120 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C125 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C126 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C127 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C452 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C453 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C455 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C456 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C457 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C458 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C459 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C460 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C463 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C464 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C728 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C737 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C739 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C745 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C754 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C757 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C760 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C765 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C103 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C104 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C105 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C106 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C107 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C110 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |

| Level | Loc. No. | Code No. | Description & Specification | Q'ty | SA/SNA |
|---|---|---|---|---|---|
| ....4 | C320 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C329 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C351 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C403 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C406 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C407 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C413 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C414 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C416 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C422 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C423 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C426 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C441 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C702 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C703 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C704 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C706 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C712 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C713 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C714 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C731 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C740 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C741 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C747 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C762 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C767 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C768 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C769 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C771 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C772 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C773 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C774 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C775 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C777 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C102 | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608 | 1 | S.A |
| ....4 | C115 | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608 | 1 | S.A |
| ....4 | C308 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C427 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C701 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C710 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C711 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C715 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C720 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C790 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C325 | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C709 | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C723 | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C730 | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C733 | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C735 | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C766 | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C717 | 2203-000552 | C-CER,CHIP;0.02nF,5%,50V,C0G,1608 | 1 | S.A |
| ....4 | C718 | 2203-000552 | C-CER,CHIP;0.02nF,5%,50V,C0G,1608 | 1 | S.A |
| ....4 | C101 | 2203-000626 | C-CER,CHIP;0.022nF,5%,50V,C0G,1608 | 1 | S.A |
| ....4 | C309 | 2203-000626 | C-CER,CHIP;0.022nF,5%,50V,C0G,1608 | 1 | S.A |
| ....4 | C310 | 2203-000626 | C-CER,CHIP;0.022nF,5%,50V,C0G,1608 | 1 | S.A |
| ....4 | C748 | 2203-000626 | C-CER,CHIP;0.022nF,5%,50V,C0G,1608 | 1 | S.A |
| ....4 | C751 | 2203-000626 | C-CER,CHIP;0.022nF,5%,50V,C0G,1608 | 1 | S.A |
| ....4 | C108 | 2203-000972 | C-CER,CHIP;47nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C109 | 2203-000972 | C-CER,CHIP;47nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C111 | 2203-000972 | C-CER,CHIP;47nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C323 | 2203-000972 | C-CER,CHIP;47nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C324 | 2203-000972 | C-CER,CHIP;47nF,10%,16V,X7R,1608 | 1 | S.A |

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| ....4 | C326 | 2203-000972 | C-CER,CHIP;47nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C122 | 2203-001071 | C-CER,CHIP;0.056nF,5%,50V,C0G,1608 | 1 | S.A |
| ....4 | C727 | 2203-001656 | C-CER,CHIP;0.47nF,5%,50V,NP0,1608 | 1 | S.A |
| ....4 | C729 | 2203-001656 | C-CER,CHIP;0.47nF,5%,50V,NP0,1608 | 1 | S.A |
| ....4 | C736 | 2203-001656 | C-CER,CHIP;0.47nF,5%,50V,NP0,1608 | 1 | S.A |
| ....4 | C738 | 2203-001656 | C-CER,CHIP;0.47nF,5%,50V,NP0,1608 | 1 | S.A |
| ....4 | C744 | 2203-001656 | C-CER,CHIP;0.47nF,5%,50V,NP0,1608 | 1 | S.A |
| ....4 | C753 | 2203-001656 | C-CER,CHIP;0.47nF,5%,50V,NP0,1608 | 1 | S.A |
| ....4 | C756 | 2203-001656 | C-CER,CHIP;0.47nF,5%,50V,NP0,1608 | 1 | S.A |
| ....4 | C759 | 2203-001656 | C-CER,CHIP;0.47nF,5%,50V,NP0,1608 | 1 | S.A |
| ....4 | C764 | 2203-001656 | C-CER,CHIP;0.47nF,5%,50V,NP0,1608 | 1 | S.A |
| ....4 | C402 | 2203-002793 | C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012 | 1 | S.A |
| ....4 | C440 | 2203-002793 | C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012 | 1 | S.A |
| ....4 | C100 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C319 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C322 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C327 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C328 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C400 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C401 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C404 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C431 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C465 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C722 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C750 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C112 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C113 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C114 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C118 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C121 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C123 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C124 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C300 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C301 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C302 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C303 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C304 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C305 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C306 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C312 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C313 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C314 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C315 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C316 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C317 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C318 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C321 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C330 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C331 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C332 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C333 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C334 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C335 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C336 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C337 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C338 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C339 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C340 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C341 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C342 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C343 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C344 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C345 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |

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| ....4 | C346 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C347 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C348 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C349 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C350 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C411 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C417 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C418 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C424 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C425 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C461 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C700 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C742 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C763 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C770 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C779 | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C311 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | S.A |
| ....4 | C415 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | S.A |
| ....4 | C428 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | S.A |
| ....4 | C436 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | S.A |
| ....4 | C721 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | S.A |
| ....4 | C724 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | S.A |
| ....4 | C726 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | S.A |
| ....4 | C732 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | S.A |
| ....4 | C734 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | S.A |
| ....4 | C743 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | S.A |
| ....4 | C749 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | S.A |
| ....4 | C752 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | S.A |
| ....4 | C755 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | S.A |
| ....4 | C758 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | S.A |
| ....4 | C761 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | S.A |
| ....4 | C776 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | S.A |
| ....4 | C705 | 2402-000176 | C-AL,SMD;10uF,20%,16V,GP,TP,4.3x4.3x5.4 | 1 | S.A |
| ....4 | C412 | 2402-001044 | C-AL,SMD;100UF,20%,25V,GP,TP,8.3X8.3X6.3 | 1 | S.A |
| ....4 | C707 | 2402-001080 | C-AL,SMD;47uF,20%,50V,WT,TP,8x10mm | 1 | S.A |
| ....4 | C708 | 2402-001080 | C-AL,SMD;47uF,20%,50V,WT,TP,8x10mm | 1 | S.A |
| ....4 | C408 | 2402-001081 | C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10 | 1 | S.A |
| ....4 | C451 | 2402-001081 | C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10 | 1 | S.A |
| ....4 | C490 | 2402-001081 | C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10 | 1 | S.A |
| ....4 | C491 | 2402-001081 | C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10 | 1 | S.A |
| ....4 | C307 | 2402-001086 | C-AL,SMD;100UF,20%,16V,WT,TP,6.6X6.6X5.3 | 1 | S.A |
| ....4 | C405 | 2402-001086 | C-AL,SMD;100UF,20%,16V,WT,TP,6.6X6.6X5.3 | 1 | S.A |
| ....4 | C409 | 2402-001086 | C-AL,SMD;100UF,20%,16V,WT,TP,6.6X6.6X5.3 | 1 | S.A |
| ....4 | C433 | 2402-001086 | C-AL,SMD;100UF,20%,16V,WT,TP,6.6X6.6X5.3 | 1 | S.A |
| ....4 | C437 | 2402-001086 | C-AL,SMD;100UF,20%,16V,WT,TP,6.6X6.6X5.3 | 1 | S.A |
| ....4 | C716 | 2402-001086 | C-AL,SMD;100UF,20%,16V,WT,TP,6.6X6.6X5.3 | 1 | S.A |
| ....4 | C119 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | S.A |
| ....4 | C410 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | S.A |
| ....4 | C419 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | S.A |
| ....4 | C420 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | S.A |
| ....4 | C429 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | S.A |
| ....4 | C430 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | S.A |
| ....4 | C432 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | S.A |
| ....4 | C480 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | S.A |
| ....4 | C421 | 2402-001158 | C-AL,SMD;1UF,20%,50V,WT,TP,4X5.2MM | 1 | S.A |
| ....4 | C438 | 2402-001159 | C-AL,SMD;3.3UF,20%,50V,WT,TP,4X5.2MM | 1 | S.A |
| ....4 | C439 | 2402-001159 | C-AL,SMD;3.3UF,20%,50V,WT,TP,4X5.2MM | 1 | S.A |
| ....4 | C442 | 2402-001165 | C-AL,SMD;4.7UF,20%,35V,WT,TP,4X5.8MM | 1 | S.A |
| ....4 | C443 | 2402-001165 | C-AL,SMD;4.7UF,20%,35V,WT,TP,4X5.8MM | 1 | S.A |
| ....4 | C444 | 2402-001165 | C-AL,SMD;4.7UF,20%,35V,WT,TP,4X5.8MM | 1 | S.A |
| ....4 | C445 | 2402-001165 | C-AL,SMD;4.7UF,20%,35V,WT,TP,4X5.8MM | 1 | S.A |
| ....4 | C446 | 2402-001165 | C-AL,SMD;4.7UF,20%,35V,WT,TP,4X5.8MM | 1 | S.A |
| ....4 | C447 | 2402-001165 | C-AL,SMD;4.7UF,20%,35V,WT,TP,4X5.8MM | 1 | S.A |

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| ....4 | C448 | 2402-001165 | C-AL,SMD;4.7UF,20%,35V,WT,TP,4X5.8MM | 1 | S.A |
| ....4 | C449 | 2402-001165 | C-AL,SMD;4.7UF,20%,35V,WT,TP,4X5.8MM | 1 | S.A |
| ....4 | C450 | 2402-001165 | C-AL,SMD;4.7UF,20%,35V,WT,TP,4X5.8MM | 1 | S.A |
| ....4 | C454 | 2402-001165 | C-AL,SMD;4.7UF,20%,35V,WT,TP,4X5.8MM | 1 | S.A |
| ....4 | C746 | 2402-001165 | C-AL,SMD;4.7UF,20%,35V,WT,TP,4X5.8MM | 1 | S.A |
| ....4 | C462 | 2402-001178 | C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8m | 1 | S.A |
| ....4 | C434 | 2402-001183 | C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM | 1 | S.A |
| ....4 | C435 | 2402-001183 | C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM | 1 | S.A |
| ....4 | C725 | 2402-001222 | C-AL,SMD;3.3UF,20%,50V,HR,TP,4.3X4.3X5.8 | 1 | S.A |
| ....4 | T0052 | 2703-000222 | INDUCTOR-SMD;560nH,10%,2012 | 1 | S.A |
| ....4 | T0052 | 2703-001334 | INDUCTOR-SMD;1.5uH,10%,2012 | 1 | S.A |
| ....4 | T0052 | 2703-001334 | INDUCTOR-SMD;1.5uH,10%,2012 | 1 | S.A |
| ....4 | T0052 | 2703-001334 | INDUCTOR-SMD;1.5uH,10%,2012 | 1 | S.A |
| ....4 | T0052 | 2703-001778 | INDUCTOR-SMD;3.3uH,20%,3225 | 1 | S.A |
| ....4 | T0052 | 2703-001778 | INDUCTOR-SMD;3.3uH,20%,3225 | 1 | S.A |
| ....4 | T0052 | 2703-001778 | INDUCTOR-SMD;3.3uH,20%,3225 | 1 | S.A |
| ....4 | T0052 | 2703-001778 | INDUCTOR-SMD;3.3uH,20%,3225 | 1 | S.A |
| ....4 | T0052 | 2703-001778 | INDUCTOR-SMD;3.3uH,20%,3225 | 1 | S.A |
| ....4 | T0052 | 2703-001778 | INDUCTOR-SMD;3.3uH,20%,3225 | 1 | S.A |
| ....4 | T0052 | 2703-001778 | INDUCTOR-SMD;3.3uH,20%,3225 | 1 | S.A |
| ....4 | T0052 | 2703-001778 | INDUCTOR-SMD;3.3uH,20%,3225 | 1 | S.A |
| ....4 | T0052 | 2703-001778 | INDUCTOR-SMD;3.3uH,20%,3225 | 1 | S.A |
| ....4 | T0052 | 2703-001778 | INDUCTOR-SMD;3.3uH,20%,3225 | 1 | S.A |
| ....4 | T0052 | 2703-001778 | INDUCTOR-SMD;3.3uH,20%,3225 | 1 | S.A |
| ....4 | T0052 | 2703-001778 | INDUCTOR-SMD;3.3uH,20%,3225 | 1 | S.A |
| ....4 | T0052 | 2703-001778 | INDUCTOR-SMD;3.3uH,20%,3225 | 1 | S.A |
| ....4 | T0052 | 2703-001778 | INDUCTOR-SMD;3.3uH,20%,3225 | 1 | S.A |
| ....4 | X300 | 2801-003667 | CRYSTAL-SMD;14.31818MHz,30ppm,28-AAN,16, | 1 | S.A |
| ....4 | X700 | 2801-004004 | CRYSTAL-SMD;20.25MHz,20ppm,28-AAN,13pF,2 | 1 | S.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001236 | BEAD-SMD;60ohm,1608,-,-,- | 1 | S.N.A |
| ....4 | T0568 | 3301-001236 | BEAD-SMD;60ohm,1608,-,-,- | 1 | S.N.A |
| ....4 | T0568 | 3301-001236 | BEAD-SMD;60ohm,1608,-,-,- | 1 | S.N.A |
| ....4 | IC706_SOCK | 3704-000249 | SOCKET-IC;32P,PLCC,SN,1.27mm | 1 | S.A |
| ....4 | CN330 | 3711-005292 | HEADER-BOARD TO CABLE;BOX,3P,1R,2MM,SMD- | 1 | S.A |
| ....4 | CN330 | 3711-005292 | HEADER-BOARD TO CABLE;BOX,3P,1R,2MM,SMD- | 1 | S.A |
| ....4 | CN330 | 3711-005470 | HEADER-BOARD TO CABLE;BOX,30P,1R,1.25mm, | 1 | S.A |
| ....4 | CN330 | 3711-005477 | HEADER-BOARD TO CABLE;BOX,4P,1R,2mm,SMD- | 1 | S.A |
| ....4 | CN330 | 3711-005498 | HEADER-BOARD TO CABLE;BOX,10P,1R,1.25mm, | 1 | S.A |
| ....4 | IC702 | BN09-00016A | IC MICOM MTP;VCT4977,VCT49X7R-XX,F2,POLL | 1 | S.A |
| ....4 | L402 | BN27-00002A | COIL-CHOKE(SMD);47uH,47uH,20%,12*12*8mm, | 1 | S.A |
| ....4 | L701 | BN27-00017A | COIL CHOKE-SMD;PO5845-330,LT17N2,33uH,10 | 1 | S.A |
| ....4 | R790 | 2007-001179 | R-CHIP;8.2Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | T0568 | 3301-001288 | BEAD-SMD;30ohm,1608,TP,-,- | 1 | S.A |
| ....4 | CN330 | 3711-003057 | HEADER-BOARD TO CABLE;BOX,6P,1R,1.25MM,S | 1 | S.A |
| ....4 | T0087 | 1203-001488 | IC-POSI.FIXED REG.;7805,T0-252,3P,-,PLAS | 1 | S.A |
| ....4 | CIS5 | 0202-001477 | SOLDER-CREAM;LST309-M,-,D20~45§-,96.5Sn/ | 3 | S.N.A |

| Level | Loc. No. | Code No. | Description & Specification | Q'ty | SA/SNA |
|---|---|---|---|---|---|
| ....4 | T0077 | BN41-00656D | PCB MAIN;DVORAK,FR-4,4L,1.3,1.6,275*105, | 1 | S.N.A |
| ...3 | M0018 | BN97-00675D | ASSY MICOM;LS19DOWSS/XAA,DO19WS,AMLCD | 1 | S.A |
| ....4 | IC902 | 1102-001129 | IC-EPROM;M27W401,512KX8BIT,PLCC,32P,11.3 | 1 | S.N.A |
| | | | | | |
| 0.1 | M0112 | BN91-00958A | ASSY SHIELD;LS19DOWSS*,DO19WS, STZ TN ZP | 1 | S.N.A |
| ..2 | M0081 | 6003-000115 | SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC | 2 | S.A |
| ..2 | M0081 | 6003-000115 | SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC | 8 | S.A |
| ..2 | M0081 | 6003-000115 | SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC | 6 | S.A |
| ..2 | M0081 | 6003-000275 | SCREW-TAPTITE;BH,+,-,B,M3,L10,ZPC(BLK),S | 9 | S.N.A |
| ..2 | M0081 | 6003-001439 | SCREW-TAPTITE;BH,+,S,M4,L8,ZPC(YEL) | 1 | S.N.A |
| ..2 | M2893 | BN39-00666C | LEAD CONNECTOR-LVDS;DVORAK,UL1571#30,30P | 1 | S.A |
| ..2 | CIS | BN61-01997A | HOLDER-JACK;DV19WS,ABS HB,T2.0 | 1 | S.N.A |
| ..2 | M0107 | BN63-02132A | SHIELD-COVER;DV19WS,SECC,T0.8 | 1 | S.N.A |
| ..2 | CIS | BN96-02505A | ASSY SHIELD P-PANEL;LS19DOW,SECC,T0.8,AM | 1 | S.N.A |
| ...3 | T0514 | BN61-01998A | BRACKET-SUPPORT;LS19DOW,SECC,T1.2 | 1 | S.N.A |
| ...3 | M0125 | BN63-02131A | SHIELD-PANEL;LS19DOW,SECC,T0.8,AMLCD | 1 | S.N.A |
| ..2 | T0081 | 6002-001294 | SCREW-TAPPING;BH,+,,M4,L16,ZPC(BLK) | 4 | S.A |
| ..2 | CCMM1 | BN73-00122A | SILICON/RUBBER;Dvorak 19,SILICON+ALUMINA | 1 | S.N.A |
| ..2 | CCMM1 | BN73-00122B | SILICON/RUBBER;Dvorak 19,SILICON+ALUMINA | 1 | S.N.A |
| ..2 | M0174 | BN44-00116B | IP BOARD;48135T(WN),DVORAK 19",3.2 ~4.8m | 1 | S.N.A |
| | | | | | |
| 0.1 | M0019 | BN91-00963C | ASSY LCD;LS19DOWSS/EDC | 1 | S.N.A |
| ..2 | M0215 | BN07-00280A | LCD-PANEL;LTM190M2-L01-D016,Dvorak,6BIT | 1 | S.A |
| | | | | | |
| 0.1 | M0113 | BN92-01583A | ASSY P/MATERIAL;LS19DOWSS/XAA,DO19WS | 1 | S.N.A |
| ..2 | T0376 | 6902-000061 | BAG AIR;T0.2,W500,L1000,TRP,-,-,- | 0.005 | S.N.A |
| ..2 | T0376 | 6902-000379 | BAG AIR;T0.2,W1000,L1800,TRP,-,-,- | 0.002 | S.N.A |
| ..2 | T0524 | 6902-000520 | BAG PE;T0.015/T0.5(DOUBLE),W700,L700,TRP | 1 | S.N.A |
| ..2 | T0081 | 6902-000604 | BAG WRAPPING;T0.02,W500,L10000,TRP,-,-,- | 1.31 | S.N.A |
| ..2 | M0081 | 6902-000609 | BAG ROLL;T0.05,W2400,L1000,TRP,-,-,- | 0.032 | S.N.A |
| | | | | | |
| 0.1 | M0045 | BN92-01584B | ASSY ACCESSORY;LS19DOWSS/EDC,DO19WS | 1 | S.N.A |
| ..2 | M0013 | BN96-02332D | ASSY STAND P-BASE;HA19AS/BS,HIPS,GR70 & | 1 | S.A |
| ...3 | M0081 | 6003-000282 | SCREW-TAPTITE;BH,+,-,B,M3,L8,ZPC(BLK),SW | 4 | S.N.A |
| ...3 | T0524 | 6902-000389 | BAG PE;T0.015/T0.5/T0.015,W350,L300,TRP, | 1 | S.N.A |
| ...3 | | BN61-01235A | SUPPORT-BRKT BASE;MJ19AS/BS,SECC,T1.6 | 1 | S.N.A |
| ...3 | CIS4 | BN61-01717A | HOLDER-STAND;BIZET,NI PLT,CH,+,M4,L11(5) | 1 | S.N.A |
| ...3 | T0004 | BN63-01991B | COVER-STAND BASE;HA19AS/BS,HIPS,T2.5,BK2 | 1 | S.N.A |
| ...3 | | BN63-01992D | COVER-STAND TOP;HA19AS/BS,HIPS,T2.5,GR70 | 1 | S.N.A |
| ...3 | | BN68-00786F | MANUAL FLYER-02,QSG;Bizet Stand Manual,S | 1 | S.N.A |
| ...3 | T0132 | BN73-00077A | RUBBER FOOT;MATISSE,BUMPON,¨ª13.5,T2.0,6 | 4 | S.N.A |
| ..2 | M0045 | BN96-02763B | ASSY ACCESSORY;LS19DOWSS/EDC,DO19WS | 1 | S.A |
| ...3 | CN906 | 3705-001191 | CONNECTOR-COAXIAL;PAL,ADAPTER(J/P),-,-,- | 1 | S.A |
| ...3 | CN906 | 3705-001361 | CONNECTOR-COAXIAL;RCAP-DINP,ADAPTER(P/P) | 1 | S.A |
| ...3 | T0268 | 3903-000042 | CBF-POWER CORD;DT,EU,FP3/YES,IEC320 C13/ | 1 | S.A |
| ...3 | T0524 | 6902-000110 | BAG PE;T0.05,W250,L400,TRP,28,2,- | 1 | S.N.A |
| ...3 | ACCESSORY | BH68-70448A | CARD-01;TFT LCD,SRC,RUSSIA,S/W,120,W210* | 1 | S.N.A |
| ...3 | T0128 | BN39-00061B | CBF SIGNAL-STEREO;MH15NS,1P,UL2851#26,20 | 1 | S.A |
| ...3 | T0059 | BN68-00907A | MANUAL FLYER-CARD;COMM,SAMSUNG,18 LANG,E | 1 | S.N.A |
| ...3 | M0215 | BN96-02318D | ASSY MANUAL P-IB+QSG;LS19DOF, 940MW,Sync | 1 | S.N.A |
| ....4 | I/B | BN59-00480D | S/W DRIVER-03,IB;COMM,W/W,SYNCMASTER,W/W | 1 | S.N.A |
| ....4 | QUICK_SETU | BN68-00952A | MANUAL FLYER-01,QSG;Dvorak 940MW W/W QSG | 1 | S.N.A |
| ...3 | T0238 | BH68-00633A | MANUAL FLYER-WARRANTY CARD;comm,Samsung, | 1 | S.N.A |
| ..2 | M0114 | BN39-00244B | CBF SIGNAL;MO15PS,15P/15P,20276-N,1830mm | 1 | S.A |
| ..2 | T0074 | BN59-00434C | REMOCON;Manet_Multi,TM79,17.5 * 4.3 * 2, | 1 | S.A |
| | | | | | |
| 0.1 | M0019 | BN92-01585B | ASSY LABEL;LS19DOWSS/EDC,TCO99,DO19WS | 1 | S.N.A |
| | | | | | |
| 0.1 | M0003 | BN92-01586B | ASSY BOX;LS19DOWSS/EDC,TCO99,DO19WS | 1 | S.N.A |
| ..2 | BOX | BN69-01157A | BOX-02,MONITOR;S/M940MW(LS19DOW),A-1,-,- | 1.02 | S.N.A |
| ..2 | M0103 | BN72-60001A | LEVER-TOP;LSD210TL,PE-LD,WHITE,TFT_LCD | 1 | S.N.A |

# 6-2 LS19DOCSS/XAA Parts List

| Level | Loc. No. | Code No. | Description & Specification | Q'ty | SA/SNA |
|---|---|---|---|---|---|
| | | LS19DOCSS/XAA | 940MW,SGN4/S19AV-LDO,19,LCD-MO,UNITED ST | | |
| 0.1 | M0001 | BN90-00803L | ASSY COVER FRONT;LS19DOCSS/EDC,940MW,TCO | 1 | S.N.A |
| ..2 | M0081 | 6003-000275 | SCREW-TAPTITE;BH,+,-,B,M3,L10,ZPC(BLK),S | 3 | S.N.A |
| ..2 | T0003 | BN96-03793A | ASSY COVER P-FRONT;LS19DOC,ABS HB,GR70(S | 1 | S.A |
| ...3 | M0081 | 6003-000275 | SCREW-TAPTITE;BH,+,-,B,M3,L10,ZPC(BLK),S | 3 | S.N.A |
| ...3 | M0081 | 6006-001096 | SCREW-TAPTITE;BH,+,WP,B,M4.0,L12,ZPC(BLK | 4 | S.N.A |
| ...3 | M0112 | BN63-02613A | COVER-FRONT;LS19DOW,ABS,T2.5,HB,GR70,AML | 1 | S.N.A |
| ...3 | M0007 | BN64-00408A | KNOB-FUNCTION;DV19WS,ABS,T2.0,HB | 1 | S.N.A |
| ...3 | T0059 | BN64-00409A | INDICATOR LED;DV19WS,ACRYL HB,CLEAR | 1 | S.N.A |
| ...3 | M0145 | BN96-02793A | ASSY BOARD P-FUNCTION;DVORAK,CT5000-3880 | 1 | S.A |
| ...3 | T0175 | BN96-03734A | ASSY SPEAKER P;16¥Ø,Dvorak, 19, VE Type, | 1 | S.A |
| ...3 | T0069 | AA63-60001Q | SPACER-FELT;-,FELT,-,-,-,BLK,T0.35,-,150 | 6 | S.N.A |
| ...3 | T0175 | BN96-03733B | ASSY SPEAKER P;16ohm,Dvorak 19",3W,2pin, | 1 | S.A |
| 0.1 | M0002 | BN90-00813A | ASSY COVER REAR;LS19DOWSS/XAA,DO19WS | 1 | S.N.A |
| ..2 | M0013 | BN96-02503A | ASSY COVER P-REAR;LS19DOW,HIPS HB,BK24 | 1 | S.A |
| ...3 | M0113 | BN61-00377A | BRACKET-VESA;GOYA19"(193V),SECC,T1.0 | 1 | S.A |
| ...3 | M0279 | BN63-01140A | FELT;MUSE20",FELT,1.0,122,122 | 1 | S.N.A |
| ...3 | M0006 | BN63-02127A | COVER-REAR;LS19DOW,HIPS,T2.5,HB,BK24 | 1 | S.N.A |
| 0.1 | M0216 | BN90-00814A | ASSY STAND;LS19DOWSS/XAA,DO19WS | 1 | S.N.A |
| ..2 | STD | BN96-02966A | ASSY STAND P-BODY;LS19DOW,HIPS HB,BK24,Z | 1 | S.A |
| ...3 | M0081 | 6003-000275 | SCREW-TAPTITE;BH,+,-,B,M3,L10,ZPC(BLK),S | 4 | S.N.A |
| ...3 | | BN63-02128A | COVER-STAND FRONT;LS19DOW,HIPS,T2.5,HB,B | 1 | S.N.A |
| ...3 | | BN63-02129A | COVER-STAND REAR;LS19DOW,HIPS,T2.5,HB,BK | 1 | S.N.A |
| ...3 | T0054 | BN96-02967A | ASSY HINGE P;LS19DOW,ZNDC | 1 | S.N.A |
| 0.1 | M0017 | BN91-00957F | ASSY CHASSIS-STB;LS19DOWSS/EDC,DO19WS | 1 | S.A |
| ..2 | M0014 | BN94-00763F | ASSY PCB MAIN;LS19DOWSS/EDC,DO19WS | 1 | S.N.A |
| ...3 | T0245 | 0202-001522 | SOLDER-WIRE FLUX;LFA3-107,-,D1.2,96.5Sn/ | 1 | S.N.A |
| ...3 | IC012 | 1203-000165 | IC-POSI.ADJUST REG.;78R12,TO-220,4P,-,PL | 1 | S.A |
| ...3 | FT702 | 2904-001179 | FILTER-SAW;36.125MHz,-,32.65-39.6MHz/0.5 | 1 | S.A |
| ...3 | CN104 | 3701-001173 | CONNECTOR-DVI;24P,3R,FEMALE,ANGLE,AUF | 1 | S.A |
| ...3 | CN101 | 3701-001219 | CONNECTOR-DSUB;15P,3R,FEMALE,ANGLE,AUF | 1 | S.A |
| ...3 | CN330 | 3711-004712 | HEADER-BOARD TO CABLE;BOX,9P,1R,2mm,STRA | 1 | S.A |
| ...3 | JA330 | 3722-000143 | JACK-PHONE;1P(VER),AG,BLK,ANGLE | 1 | S.A |
| ...3 | CN110 | 3722-000183 | JACK-SCART;21P,SN,BLK | 1 | S.A |
| ...3 | JA333 | 3722-001782 | JACK-PIN;1P,SN,WHT,ANGLE | 1 | S.A |
| ...3 | JA333 | 3722-001784 | JACK-PIN;1P,SN,RED,ANGLE | 1 | S.A |
| ...3 | CN107 | 3722-002081 | JACK-EAR PHONE;5P/2C,-,SnPb,L-BLU,- | 1 | S.A |
| ...3 | JA333 | 3722-002267 | JACK-PIN;3P,AU,RED/WHT/YEL,ANGLE | 1 | S.A |
| ...3 | CN105 | 3722-002275 | JACK-DIN;4P,-,SN,BLK,- | 1 | S.A |
| ...3 | JA333 | 3722-002389 | JACK-PIN;3P,AU,RED/BLU/GRN,ANGLE | 1 | S.A |
| ...3 | CIS3 | BN40-00035A | TUNER;TDQ-6FL/W125S,TDQ-6FL/W125S,PAL Hy | 1 | S.A |
| ...3 | CIS7 | BN63-02133A | SHIELD-JACK;DV19WS,SECC,T0.8 | 1 | S.N.A |
| ...3 | T0376 | BN63-02134A | SHIELD-VIDEO;LS19DOW,SPTE,T0.2 | 1 | S.N.A |
| ...3 | T0174 | BN97-00674B | ASSY SMD;LS19DOWSS/XAA,DO19WS | 1 | S.N.A |
| ....4 | D100 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |
| ....4 | D101 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |
| ....4 | D113 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |
| ....4 | D114 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |
| ....4 | D115 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |
| ....4 | D119 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |
| ....4 | D120 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |
| ....4 | D121 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |
| ....4 | D122 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |
| ....4 | D123 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |
| ....4 | D124 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |
| ....4 | D125 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |
| ....4 | D126 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |
| ....4 | D130 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |
| ....4 | D700 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |

| Level | Loc. No. | Code No. | Description & Specification | Q'ty | SA/SNA |
|---|---|---|---|---|---|
| ....4 | D701 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |
| ....4 | D702 | 0401-001056 | DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO | 1 | S.A |
| ....4 | D400 | 0402-000553 | DIODE-SCHOTTKY;SS24/B240,40V,2000mA,DO-2 | 1 | S.A |
| ....4 | D102 | 0403-000579 | DIODE-ZENER;BZX84C5V1,4.8-5.4V,200mW,SOT | 1 | S.A |
| ....4 | D108 | 0403-000579 | DIODE-ZENER;BZX84C5V1,4.8-5.4V,200mW,SOT | 1 | S.A |
| ....4 | D109 | 0403-000579 | DIODE-ZENER;BZX84C5V1,4.8-5.4V,200mW,SOT | 1 | S.A |
| ....4 | D110 | 0403-000579 | DIODE-ZENER;BZX84C5V1,4.8-5.4V,200mW,SOT | 1 | S.A |
| ....4 | D111 | 0403-000579 | DIODE-ZENER;BZX84C5V1,4.8-5.4V,200mW,SOT | 1 | S.A |
| ....4 | D112 | 0403-000579 | DIODE-ZENER;BZX84C5V1,4.8-5.4V,200mW,SOT | 1 | S.A |
| ....4 | D116 | 0403-000579 | DIODE-ZENER;BZX84C5V1,4.8-5.4V,200mW,SOT | 1 | S.A |
| ....4 | D117 | 0403-000579 | DIODE-ZENER;BZX84C5V1,4.8-5.4V,200mW,SOT | 1 | S.A |
| ....4 | D118 | 0403-000579 | DIODE-ZENER;BZX84C5V1,4.8-5.4V,200mW,SOT | 1 | S.A |
| ....4 | D145 | 0403-000579 | DIODE-ZENER;BZX84C5V1,4.8-5.4V,200mW,SOT | 1 | S.A |
| ....4 | ZD700 | 0403-001382 | DIODE-ZENER;UDZ33B,32.15-33.79V,200mW,SO | 1 | S.A |
| ....4 | D131 | 0403-001435 | DIODE-ZENER;QZX363C5V6,5.32-5.88V,200MW, | 1 | S.A |
| ....4 | D146 | 0403-001435 | DIODE-ZENER;QZX363C5V6,5.32-5.88V,200MW, | 1 | S.A |
| ....4 | D147 | 0403-001435 | DIODE-ZENER;QZX363C5V6,5.32-5.88V,200MW, | 1 | S.A |
| ....4 | D103 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D104 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D105 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D106 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D107 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D127 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D128 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D129 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D132 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D133 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D134 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D135 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D136 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D137 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D138 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D139 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D140 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D141 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D142 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D143 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | D144 | 0406-001163 | DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD | 1 | S.A |
| ....4 | Q102 | 0501-000280 | TR-SMALL SIGNAL;KSA1182,PNP,150MW,SOT-23 | 1 | S.A |
| ....4 | Q700 | 0501-000344 | TR-SMALL SIGNAL;KSC1623-G,NPN,200mW,SOT- | 1 | S.A |
| ....4 | Q100 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | S.A |
| ....4 | Q103 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | S.A |
| ....4 | Q300 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | S.A |
| ....4 | Q400 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | S.A |
| ....4 | Q401 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | S.A |
| ....4 | Q402 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | S.A |
| ....4 | Q403 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | S.A |
| ....4 | Q404 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | S.A |
| ....4 | Q405 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | S.A |
| ....4 | Q406 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | S.A |
| ....4 | Q407 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | S.A |
| ....4 | Q408 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | S.A |
| ....4 | Q409 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | S.A |
| ....4 | Q410 | 0501-002080 | TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59 | 1 | S.A |
| ....4 | Q409 | 0505-001170 | FET-SILICON;SI9933ADY-T1,P,-20V,3.4A,0.0 | 1 | S.A |
| ....4 | Q409 | 0505-001170 | FET-SILICON;SI9933ADY-T1,P,-20V,3.4A,0.0 | 1 | S.A |
| ....4 | IC104 | 0801-002404 | IC-CMOS LOGIC;74VHC4066,ANALOG SWITCH,SO | 1 | S.A |
| ....4 | IC104 | 0801-002709 | IC-CMOS LOGIC;74HC373,D FLIP-FLOP,TSSOP, | 1 | S.A |
| ....4 | IC104 | 0801-002899 | IC-CMOS LOGIC;CD4069UBC,INVERTER,SOIC,14 | 1 | S.A |
| ....4 | IC104 | 0802-001025 | IC-CMOS LOGIC;74LCX374,D FILP-FLOP,TSSOP | 1 | S.A |
| ....4 | IC112 | 1103-000129 | IC-EEPROM;24C02,2Kbit,256x8Bit,SOP,8P,5x | 1 | S.A |
| ....4 | IC112 | 1103-000129 | IC-EEPROM;24C02,2Kbit,256x8Bit,SOP,8P,5x | 1 | S.A |
| ....4 | IC112 | 1103-001279 | IC-EEPROM;24C32,32Kbit,4Kx8Bit,SOP,8P,5x | 1 | S.A |

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|---|---|---|---|---|---|
| ....4 | IC113 | 1105-001284 | IC-DRAM;636165,-,16Mbit,1Mx16Bit,TSOP,50 | 1 | S.A |
| ....4 | IC113 | 1105-001284 | IC-DRAM;636165,-,16Mbit,1Mx16Bit,TSOP,50 | 1 | S.A |
| ....4 | T0085 | 1201-001980 | IC-AUDIO AMP;TDA7266D,SO,20P,16X11.1MM,- | 1 | S.A |
| ....4 | T0085 | 1201-002136 | IC-AUDIO AMP;LM4810,MSOP,8P,3x3mm,DUAL,- | 1 | S.A |
| ....4 | IC705 | 1203-001212 | IC-VOL. DETECTOR;7029,SOT-89,3P,-,PLASTI | 1 | S.A |
| ....4 | IC704 | 1203-001559 | IC-RESET;DS1834A,SOIC,8P,150MIL,PLASTIC, | 1 | S.A |
| ....4 | T0087 | 1203-001816 | IC-POSI.FIXED REG.;78M08,TO-252,3P,-,PLA | 1 | S.A |
| ....4 | IC406 | 1203-002796 | IC-DC/DC CONVERTER;AP1501-33K5A,TO-263-5 | 1 | S.A |
| ....4 | T0087 | 1203-002844 | IC-POSI.FIXED REG.;AP1117D-18A,TO-252-3L | 1 | S.A |
| ....4 | T0087 | 1203-002844 | IC-POSI.FIXED REG.;AP1117D-18A,TO-252-3L | 1 | S.A |
| ....4 | IC109 | 1205-002738 | IC-LCD CONTROLLER;SE6181LA-LF,LQFP,256P, | 1 | S.A |
| ....4 | R107 | 2007-000043 | R-CHIP;1Kohm,1%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R109 | 2007-000043 | R-CHIP;1Kohm,1%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R159 | 2007-000043 | R-CHIP;1Kohm,1%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R164 | 2007-000043 | R-CHIP;1Kohm,1%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R165 | 2007-000043 | R-CHIP;1Kohm,1%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R415 | 2007-000043 | R-CHIP;1Kohm,1%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R720 | 2007-000043 | R-CHIP;1Kohm,1%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R138 | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R140 | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R141 | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R143 | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R144 | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R145 | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R146 | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R147 | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R412 | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R413 | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R102 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R103 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R111 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R112 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R113 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R114 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R115 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R117 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R118 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R122 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R126 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R127 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R128 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R129 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R130 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R131 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R137 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R150 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R151 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R152 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R156 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R157 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R158 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R160 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R161 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R174 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R175 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R176 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R304 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R419 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R430 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R431 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R432 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R433 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R434 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |

| Level | Loc. No. | Code No. | Description & Specification | Q'ty | SA/SNA |
|---|---|---|---|---|---|
| ....4 | R435 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R436 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R437 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R438 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R439 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R440 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R441 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R442 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R443 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R445 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R446 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R704 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R705 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R717 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R719 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R723 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R724 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R725 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R726 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R728 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R732 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R733 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R734 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R735 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R750 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R751 | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R424 | 2007-000076 | R-CHIP;330ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R425 | 2007-000076 | R-CHIP;330ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R116 | 2007-000077 | R-CHIP;470ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R166 | 2007-000077 | R-CHIP;470ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R727 | 2007-000077 | R-CHIP;470ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R307 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R450 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R454 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R459 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R716 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R738 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R739 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R748 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R749 | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R105 | 2007-000081 | R-CHIP;2.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R177 | 2007-000082 | R-CHIP;3.3Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R133 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R134 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R135 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R300 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R302 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R303 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R306 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R308 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R417 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R420 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R448 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R449 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R452 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R453 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R457 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R703 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R729 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R730 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R740 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R741 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R742 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |

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|---|---|---|---|---|---|
| ....4 | R743 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R744 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R745 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R746 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R747 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R713 | 2007-000087 | R-CHIP;6.8Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R714 | 2007-000087 | R-CHIP;6.8Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R715 | 2007-000087 | R-CHIP;6.8Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R100 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R101 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R104 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R106 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R132 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R148 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R149 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R154 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R155 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R172 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R173 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R310 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R311 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R314 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R315 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R316 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R317 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R318 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R320 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R405 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R406 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R407 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R410 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R411 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R418 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R421 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R422 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R423 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R444 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R447 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R455 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R458 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R460 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R706 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R737 | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R408 | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R409 | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R451 | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R426 | 2007-000098 | R-CHIP;56Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R427 | 2007-000098 | R-CHIP;56Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R402 | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R403 | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R404 | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R414 | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R416 | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R707 | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R791 | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R305 | 2007-000118 | R-CHIP;390ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R701 | 2007-000234 | R-CHIP;1.3Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R169 | 2007-000402 | R-CHIP;150ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R702 | 2007-000402 | R-CHIP;150ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R167 | 2007-000458 | R-CHIP;18Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R711 | 2007-000659 | R-CHIP;27ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R136 | 2007-000869 | R-CHIP;4.7Kohm,1%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R428 | 2007-000869 | R-CHIP;4.7Kohm,1%,1/10W,TP,1608 | 1 | S.A |

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|---|---|---|---|---|---|
| ....4 | R429 | 2007-000869 | R-CHIP;4.7Kohm,1%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R721 | 2007-000869 | R-CHIP;4.7Kohm,1%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R722 | 2007-000869 | R-CHIP;4.7Kohm,1%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R712 | 2007-000882 | R-CHIP;4.7ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R153 | 2007-001002 | R-CHIP;510ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R710 | 2007-001002 | R-CHIP;510ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R708 | 2007-001134 | R-CHIP;68ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R119 | 2007-001164 | R-CHIP;75ohm,1%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R120 | 2007-001164 | R-CHIP;75ohm,1%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R121 | 2007-001164 | R-CHIP;75ohm,1%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R123 | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R124 | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R125 | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R163 | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R168 | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R752 | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R753 | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R754 | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R755 | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R756 | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R757 | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R758 | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | R171 | 2007-007852 | R-CHIP;140ohm,1%,1/10W,TP,1608 | 1 | S.A |
| ....4 | RA300 | 2011-000881 | R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1. | 1 | S.A |
| ....4 | RA301 | 2011-000881 | R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1. | 1 | S.A |
| ....4 | RA302 | 2011-000881 | R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1. | 1 | S.A |
| ....4 | RA303 | 2011-000881 | R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1. | 1 | S.A |
| ....4 | RA304 | 2011-000881 | R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1. | 1 | S.A |
| ....4 | C116 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C117 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C120 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C125 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C126 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C127 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C452 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C453 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C455 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C456 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C457 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C458 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C459 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C460 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C463 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C464 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C728 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C737 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C739 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C745 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C754 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C757 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C760 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C765 | 2203-000140 | C-CER,CHIP;1.5nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C103 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C104 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C105 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C106 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C107 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C110 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C320 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C329 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C351 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C403 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C406 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |

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|---|---|---|---|---|---|
| ....4 | C407 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C413 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C414 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C416 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C422 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C423 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C426 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C441 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C702 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C703 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C704 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C706 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C712 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C713 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C714 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C731 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C740 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C741 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C747 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C762 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C767 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C768 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C769 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C771 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C772 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C773 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C774 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C775 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C777 | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608 | 1 | S.A |
| ....4 | C102 | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608 | 1 | S.A |
| ....4 | C115 | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608 | 1 | S.A |
| ....4 | C308 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C427 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C701 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C710 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C711 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C715 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C720 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C790 | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C325 | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C709 | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C723 | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C730 | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C733 | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C735 | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C766 | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C717 | 2203-000552 | C-CER,CHIP;0.02nF,5%,50V,C0G,1608 | 1 | S.A |
| ....4 | C718 | 2203-000552 | C-CER,CHIP;0.02nF,5%,50V,C0G,1608 | 1 | S.A |
| ....4 | C101 | 2203-000626 | C-CER,CHIP;0.022nF,5%,50V,C0G,1608 | 1 | S.A |
| ....4 | C309 | 2203-000626 | C-CER,CHIP;0.022nF,5%,50V,C0G,1608 | 1 | S.A |
| ....4 | C310 | 2203-000626 | C-CER,CHIP;0.022nF,5%,50V,C0G,1608 | 1 | S.A |
| ....4 | C748 | 2203-000626 | C-CER,CHIP;0.022nF,5%,50V,C0G,1608 | 1 | S.A |
| ....4 | C751 | 2203-000626 | C-CER,CHIP;0.022nF,5%,50V,C0G,1608 | 1 | S.A |
| ....4 | C108 | 2203-000972 | C-CER,CHIP;47nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C109 | 2203-000972 | C-CER,CHIP;47nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C111 | 2203-000972 | C-CER,CHIP;47nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C323 | 2203-000972 | C-CER,CHIP;47nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C324 | 2203-000972 | C-CER,CHIP;47nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C326 | 2203-000972 | C-CER,CHIP;47nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C122 | 2203-001071 | C-CER,CHIP;0.056nF,5%,50V,C0G,1608 | 1 | S.A |
| ....4 | C727 | 2203-001656 | C-CER,CHIP;0.47nF,5%,50V,NP0,1608 | 1 | S.A |
| ....4 | C729 | 2203-001656 | C-CER,CHIP;0.47nF,5%,50V,NP0,1608 | 1 | S.A |
| ....4 | C736 | 2203-001656 | C-CER,CHIP;0.47nF,5%,50V,NP0,1608 | 1 | S.A |

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|---|---|---|---|---|---|
| ....4 | C738 | 2203-001656 | C-CER,CHIP;0.47nF,5%,50V,NP0,1608 | 1 | S.A |
| ....4 | C744 | 2203-001656 | C-CER,CHIP;0.47nF,5%,50V,NP0,1608 | 1 | S.A |
| ....4 | C753 | 2203-001656 | C-CER,CHIP;0.47nF,5%,50V,NP0,1608 | 1 | S.A |
| ....4 | C756 | 2203-001656 | C-CER,CHIP;0.47nF,5%,50V,NP0,1608 | 1 | S.A |
| ....4 | C759 | 2203-001656 | C-CER,CHIP;0.47nF,5%,50V,NP0,1608 | 1 | S.A |
| ....4 | C764 | 2203-001656 | C-CER,CHIP;0.47nF,5%,50V,NP0,1608 | 1 | S.A |
| ....4 | C402 | 2203-002793 | C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012 | 1 | S.A |
| ....4 | C440 | 2203-002793 | C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012 | 1 | S.A |
| ....4 | C100 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C319 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C322 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C327 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C328 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C400 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C401 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C404 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C431 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C465 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C722 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C750 | 2203-005005 | C-CER,CHIP;100nF,10%,16V,X7R,1608 | 1 | S.A |
| ....4 | C112 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C113 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C114 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C118 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C121 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C123 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C124 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C300 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C301 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C302 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C303 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C304 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C305 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C306 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C312 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C313 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C314 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C315 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C316 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C317 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C318 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C321 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C330 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C331 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C332 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C333 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C334 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C335 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C336 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C337 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C338 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C339 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C340 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C341 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C342 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C343 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C344 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C345 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C346 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C347 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C348 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C349 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C350 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |

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|---|---|---|---|---|---|
| ....4 | C411 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C417 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C418 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C424 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C425 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C461 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C700 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C742 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C763 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C770 | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608 | 1 | S.A |
| ....4 | C779 | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608 | 1 | S.A |
| ....4 | C311 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | S.A |
| ....4 | C415 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | S.A |
| ....4 | C428 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | S.A |
| ....4 | C436 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | S.A |
| ....4 | C721 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | S.A |
| ....4 | C724 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | S.A |
| ....4 | C726 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | S.A |
| ....4 | C732 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | S.A |
| ....4 | C734 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | S.A |
| ....4 | C743 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | S.A |
| ....4 | C749 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | S.A |
| ....4 | C752 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | S.A |
| ....4 | C755 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | S.A |
| ....4 | C758 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | S.A |
| ....4 | C761 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | S.A |
| ....4 | C776 | 2203-005437 | C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216 | 1 | S.A |
| ....4 | C705 | 2402-000176 | C-AL,SMD;10uF,20%,16V,GP,TP,4.3x4.3x5.4 | 1 | S.A |
| ....4 | C412 | 2402-001044 | C-AL,SMD;100UF,20%,25V,GP,TP,8.3X8.3X6.3 | 1 | S.A |
| ....4 | C707 | 2402-001080 | C-AL,SMD;47uF,20%,50V,WT,TP,8x10mm | 1 | S.A |
| ....4 | C708 | 2402-001080 | C-AL,SMD;47uF,20%,50V,WT,TP,8x10mm | 1 | S.A |
| ....4 | C408 | 2402-001081 | C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10 | 1 | S.A |
| ....4 | C451 | 2402-001081 | C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10 | 1 | S.A |
| ....4 | C490 | 2402-001081 | C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10 | 1 | S.A |
| ....4 | C491 | 2402-001081 | C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10 | 1 | S.A |
| ....4 | C307 | 2402-001086 | C-AL,SMD;100UF,20%,16V,WT,TP,6.6X6.6X5.3 | 1 | S.A |
| ....4 | C405 | 2402-001086 | C-AL,SMD;100UF,20%,16V,WT,TP,6.6X6.6X5.3 | 1 | S.A |
| ....4 | C409 | 2402-001086 | C-AL,SMD;100UF,20%,16V,WT,TP,6.6X6.6X5.3 | 1 | S.A |
| ....4 | C433 | 2402-001086 | C-AL,SMD;100UF,20%,16V,WT,TP,6.6X6.6X5.3 | 1 | S.A |
| ....4 | C437 | 2402-001086 | C-AL,SMD;100UF,20%,16V,WT,TP,6.6X6.6X5.3 | 1 | S.A |
| ....4 | C716 | 2402-001086 | C-AL,SMD;100UF,20%,16V,WT,TP,6.6X6.6X5.3 | 1 | S.A |
| ....4 | C119 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | S.A |
| ....4 | C410 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | S.A |
| ....4 | C419 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | S.A |
| ....4 | C420 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | S.A |
| ....4 | C429 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | S.A |
| ....4 | C430 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | S.A |
| ....4 | C432 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | S.A |
| ....4 | C480 | 2402-001128 | C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM | 1 | S.A |
| ....4 | C421 | 2402-001158 | C-AL,SMD;1UF,20%,50V,WT,TP,4X5.2MM | 1 | S.A |
| ....4 | C438 | 2402-001159 | C-AL,SMD;3.3UF,20%,50V,WT,TP,4X5.2MM | 1 | S.A |
| ....4 | C439 | 2402-001159 | C-AL,SMD;3.3UF,20%,50V,WT,TP,4X5.2MM | 1 | S.A |
| ....4 | C442 | 2402-001165 | C-AL,SMD;4.7UF,20%,35V,WT,TP,4X5.8MM | 1 | S.A |
| ....4 | C443 | 2402-001165 | C-AL,SMD;4.7UF,20%,35V,WT,TP,4X5.8MM | 1 | S.A |
| ....4 | C444 | 2402-001165 | C-AL,SMD;4.7UF,20%,35V,WT,TP,4X5.8MM | 1 | S.A |
| ....4 | C445 | 2402-001165 | C-AL,SMD;4.7UF,20%,35V,WT,TP,4X5.8MM | 1 | S.A |
| ....4 | C446 | 2402-001165 | C-AL,SMD;4.7UF,20%,35V,WT,TP,4X5.8MM | 1 | S.A |
| ....4 | C447 | 2402-001165 | C-AL,SMD;4.7UF,20%,35V,WT,TP,4X5.8MM | 1 | S.A |
| ....4 | C448 | 2402-001165 | C-AL,SMD;4.7UF,20%,35V,WT,TP,4X5.8MM | 1 | S.A |
| ....4 | C449 | 2402-001165 | C-AL,SMD;4.7UF,20%,35V,WT,TP,4X5.8MM | 1 | S.A |
| ....4 | C450 | 2402-001165 | C-AL,SMD;4.7UF,20%,35V,WT,TP,4X5.8MM | 1 | S.A |
| ....4 | C454 | 2402-001165 | C-AL,SMD;4.7UF,20%,35V,WT,TP,4X5.8MM | 1 | S.A |
| ....4 | C746 | 2402-001165 | C-AL,SMD;4.7UF,20%,35V,WT,TP,4X5.8MM | 1 | S.A |

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|---|---|---|---|---|---|
| ....4 | C462 | 2402-001178 | C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8m | 1 | S.A |
| ....4 | C434 | 2402-001183 | C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM | 1 | S.A |
| ....4 | C435 | 2402-001183 | C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM | 1 | S.A |
| ....4 | C725 | 2402-001222 | C-AL,SMD;3.3UF,20%,50V,HR,TP,4.3X4.3X5.8 | 1 | S.A |
| ....4 | T0052 | 2703-000222 | INDUCTOR-SMD;560nH,10%,2012 | 1 | S.A |
| ....4 | T0052 | 2703-001334 | INDUCTOR-SMD;1.5uH,10%,2012 | 1 | S.A |
| ....4 | T0052 | 2703-001334 | INDUCTOR-SMD;1.5uH,10%,2012 | 1 | S.A |
| ....4 | T0052 | 2703-001334 | INDUCTOR-SMD;1.5uH,10%,2012 | 1 | S.A |
| ....4 | T0052 | 2703-001778 | INDUCTOR-SMD;3.3uH,20%,3225 | 1 | S.A |
| ....4 | T0052 | 2703-001778 | INDUCTOR-SMD;3.3uH,20%,3225 | 1 | S.A |
| ....4 | T0052 | 2703-001778 | INDUCTOR-SMD;3.3uH,20%,3225 | 1 | S.A |
| ....4 | T0052 | 2703-001778 | INDUCTOR-SMD;3.3uH,20%,3225 | 1 | S.A |
| ....4 | T0052 | 2703-001778 | INDUCTOR-SMD;3.3uH,20%,3225 | 1 | S.A |
| ....4 | T0052 | 2703-001778 | INDUCTOR-SMD;3.3uH,20%,3225 | 1 | S.A |
| ....4 | T0052 | 2703-001778 | INDUCTOR-SMD;3.3uH,20%,3225 | 1 | S.A |
| ....4 | T0052 | 2703-001778 | INDUCTOR-SMD;3.3uH,20%,3225 | 1 | S.A |
| ....4 | T0052 | 2703-001778 | INDUCTOR-SMD;3.3uH,20%,3225 | 1 | S.A |
| ....4 | T0052 | 2703-001778 | INDUCTOR-SMD;3.3uH,20%,3225 | 1 | S.A |
| ....4 | T0052 | 2703-001778 | INDUCTOR-SMD;3.3uH,20%,3225 | 1 | S.A |
| ....4 | T0052 | 2703-001778 | INDUCTOR-SMD;3.3uH,20%,3225 | 1 | S.A |
| ....4 | T0052 | 2703-001778 | INDUCTOR-SMD;3.3uH,20%,3225 | 1 | S.A |
| ....4 | T0052 | 2703-001778 | INDUCTOR-SMD;3.3uH,20%,3225 | 1 | S.A |
| ....4 | X300 | 2801-003667 | CRYSTAL-SMD;14.31818MHz,30ppm,28-AAN,16, | 1 | S.A |
| ....4 | X700 | 2801-004004 | CRYSTAL-SMD;20.25MHz,20ppm,28-AAN,13pF,2 | 1 | S.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001145 | BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm | 1 | S.N.A |
| ....4 | T0568 | 3301-001236 | BEAD-SMD;60ohm,1608,-,-,- | 1 | S.N.A |
| ....4 | T0568 | 3301-001236 | BEAD-SMD;60ohm,1608,-,-,- | 1 | S.N.A |
| ....4 | T0568 | 3301-001236 | BEAD-SMD;60ohm,1608,-,-,- | 1 | S.N.A |
| ....4 | IC706_SOCK | 3704-000249 | SOCKET-IC;32P,PLCC,SN,1.27mm | 1 | S.A |
| ....4 | CN330 | 3711-005292 | HEADER-BOARD TO CABLE;BOX,3P,1R,2MM,SMD- | 1 | S.A |
| ....4 | CN330 | 3711-005292 | HEADER-BOARD TO CABLE;BOX,3P,1R,2MM,SMD- | 1 | S.A |
| ....4 | CN330 | 3711-005470 | HEADER-BOARD TO CABLE;BOX,30P,1R,1.25mm, | 1 | S.A |
| ....4 | CN330 | 3711-005477 | HEADER-BOARD TO CABLE;BOX,4P,1R,2mm,SMD- | 1 | S.A |
| ....4 | CN330 | 3711-005498 | HEADER-BOARD TO CABLE;BOX,10P,1R,1.25mm, | 1 | S.A |
| ....4 | IC702 | BN09-00016A | IC MICOM MTP;VCT4977,VCT49X7R-XX,F2,POLL | 1 | S.A |
| ....4 | L402 | BN27-00002A | COIL-CHOKE(SMD);47uH,47uH,20%,12*12*8mm, | 1 | S.A |
| ....4 | L701 | BN27-00017A | COIL CHOKE-SMD;PO5845-330,LT17N2,33uH,10 | 1 | S.A |
| ....4 | R790 | 2007-001179 | R-CHIP;8.2Kohm,5%,1/10W,TP,1608 | 1 | S.A |
| ....4 | T0568 | 3301-001288 | BEAD-SMD;30ohm,1608,TP,-,- | 1 | S.A |
| ....4 | CN330 | 3711-003057 | HEADER-BOARD TO CABLE;BOX,6P,1R,1.25MM,S | 1 | S.A |
| ....4 | T0087 | 1203-001488 | IC-POSI.FIXED REG.;7805,T0-252,3P,-,PLAS | 1 | S.A |
| ....4 | CIS5 | 0202-001477 | SOLDER-CREAM;LST309-M,-,D20~45§-,96.5Sn/ | 3 | S.N.A |
| ....4 | T0077 | BN41-00656D | PCB MAIN;DVORAK,FR-4,4L,1.3,1.6,275*105, | 1 | S.N.A |
| ...3 | M0018 | BN97-00675D | ASSY MICOM;LS19DOWSS/XAA,DO19WS,AMLCD | 1 | S.A |
| ....4 | IC902 | 1102-001129 | IC-EPROM;M27W401,512KX8BIT,PLCC,32P,11.3 | 1 | S.N.A |
| 0.1 | M0112 | BN91-00958A | ASSY SHIELD;LS19DOWSS*,DO19WS, STZ TN ZP | 1 | S.N.A |

| Level | Loc. No. | Code No. | Description & Specification | Q'ty | SA/SNA |
|---|---|---|---|---|---|
| ..2 | M0081 | 6003-000115 | SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC | 2 | S.A |
| ..2 | M0081 | 6003-000115 | SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC | 8 | S.A |
| ..2 | M0081 | 6003-000115 | SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC | 6 | S.A |
| ..2 | M0081 | 6003-000275 | SCREW-TAPTITE;BH,+,-,B,M3,L10,ZPC(BLK),S | 9 | S.N.A |
| ..2 | M0081 | 6003-001439 | SCREW-TAPTITE;BH,+,S,M4,L8,ZPC(YEL) | 1 | S.N.A |
| ..2 | M2893 | BN39-00666C | LEAD CONNECTOR-LVDS;DVORAK,UL1571#30,30P | 1 | S.A |
| ..2 | CIS | BN61-01997A | HOLDER-JACK;DV19WS,ABS HB,T2.0 | 1 | S.N.A |
| ..2 | M0107 | BN63-02132A | SHIELD-COVER;DV19WS,SECC,T0.8 | 1 | S.N.A |
| ..2 | CIS | BN96-02505A | ASSY SHIELD P-PANEL;LS19DOW,SECC,T0.8,AM | 1 | S.N.A |
| ...3 | T0514 | BN61-01998A | BRACKET-SUPPORT;LS19DOW,SECC,T1.2 | 1 | S.N.A |
| ...3 | M0125 | BN63-02131A | SHIELD-PANEL;LS19DOW,SECC,T0.8,AMLCD | 1 | S.N.A |
| ..2 | T0081 | 6002-001294 | SCREW-TAPPING;BH,+,,M4,L16,ZPC(BLK) | 4 | S.A |
| ..2 | CCMM1 | BN73-00122A | SILICON/RUBBER;Dvorak 19,SILICON+ALUMINA | 1 | S.N.A |
| ..2 | CCMM1 | BN73-00122B | SILICON/RUBBER;Dvorak 19,SILICON+ALUMINA | 1 | S.N.A |
| ..2 | M0174 | BN44-00116B | IP BOARD;48135T(WN),DVORAK 19",3.2 ~4.8m | 1 | S.N.A |
| 0.1 | M0019 | BN91-00963C | ASSY LCD;LS19DOWSS/EDC | 1 | S.N.A |
| ..2 | M0215 | BN07-00280A | LCD-PANEL;LTM190M2-L01-D016,Dvorak,6BIT | 1 | S.A |
| 0.1 | M0113 | BN92-01583A | ASSY P/MATERIAL;LS19DOWSS/XAA,DO19WS | 1 | S.N.A |
| ..2 | T0376 | 6902-000061 | BAG AIR;T0.2,W500,L1000,TRP,-,-,- | 0.005 | S.N.A |
| ..2 | T0376 | 6902-000379 | BAG AIR;T0.2,W1000,L1800,TRP,-,-,- | 0.002 | S.N.A |
| ..2 | T0524 | 6902-000520 | BAG PE;T0.015/T0.5(DOUBLE),W700,L700,TRP | 1 | S.N.A |
| ..2 | T0081 | 6902-000604 | BAG WRAPPING;T0.02,W500,L10000,TRP,-,-,- | 1.31 | S.N.A |
| ..2 | M0081 | 6902-000609 | BAG ROLL;T0.05,W2400,L1000,TRP,-,-,- | 0.032 | S.N.A |
| 0.1 | M0045 | BN92-01584A | ASSY ACCESSORY;LS19DOWSS/XAA,DO19WS | 1 | S.N.A |
| ..2 | M0013 | BN96-02332D | ASSY STAND P-BASE;HA19AS/BS,HIPS,GR70 & | 1 | S.A |
| ...3 | M0081 | 6003-000282 | SCREW-TAPTITE;BH,+,-,B,M3,L8,ZPC(BLK),SW | 4 | S.N.A |
| ...3 | T0524 | 6902-000389 | BAG PE;T0.015/T0.5/T0.015,W350,L300,TRP, | 1 | S.N.A |
| ...3 | | BN61-01235A | SUPPORT-BRKT BASE;MJ19AS/BS,SECC,T1.6 | 1 | S.N.A |
| ...3 | CIS4 | BN61-01717A | HOLDER-STAND;BIZET,NI PLT,CH,+,M4,L11(5) | 1 | S.N.A |
| ...3 | T0004 | BN63-01991B | COVER-STAND BASE;HA19AS/BS,HIPS,T2.5,BK2 | 1 | S.N.A |
| ...3 | | BN63-01992D | COVER-STAND TOP;HA19AS/BS,HIPS,T2.5,GR70 | 1 | S.N.A |
| ...3 | | BN68-00786F | MANUAL FLYER-02,QSG;Bizet Stand Manual,S | 1 | S.N.A |
| ...3 | T0132 | BN73-00077A | RUBBER FOOT;MATISSE,BUMPON,¨ª13.5,T2.0,6 | 4 | S.N.A |
| ..2 | M0045 | BN96-02763A | ASSY ACCESSORY;LS19DOWSS/XAA,DO19WS | 1 | S.A |
| ...3 | CN906 | 3705-001191 | CONNECTOR-COAXIAL;PAL,ADAPTER(J/P),-,-,- | 1 | S.A |
| ...3 | T0268 | 3903-000085 | CBF-POWER CORD;DT,US,BP3/YES,I(IEC C13/C | 1 | S.A |
| ...3 | T0524 | 6902-000110 | BAG PE;T0.05,W250,L400,TRP,28,2,- | 1 | S.N.A |
| ...3 | ACCESSORY | BH68-00261F | CARD WARRANTY-04;SyncMaster14-1,ADC,MOJO | 1 | S.N.A |
| ...3 | ACCESSORY | BH68-00344C | CARD WARRANTY-02;SECA W'TY & CRM CARD,SE | 1 | S.N.A |
| ...3 | T0128 | BN39-00061B | CBF SIGNAL-STEREO;MH15NS,1P,UL2851#26,20 | 1 | S.A |
| ...3 | T0238 | BN68-00832C | MANUAL FLYER-REGISTRATION CARD;SECA all, | 1 | S.N.A |
| ...3 | T0238 | BN68-00832D | MANUAL FLYER-REGISTRATION CARD;SECA all, | 1 | S.N.A |
| ...3 | M0215 | BN96-02318D | ASSY MANUAL P-IB+QSG;LS19DOF, 940MW,Sync | 1 | S.N.A |
| ....4 | I/B | BN59-00480D | S/W DRIVER-03,IB;COMM,W/W,SYNCMASTER,W/W | 1 | S.N.A |
| ....4 | QUICK_SETU | BN68-00952A | MANUAL FLYER-01,QSG;Dvorak 940MW W/W QSG | 1 | S.N.A |
| ...3 | T0238 | AA68-03870A | MANUAL FLYER-REGISTRATION CARD;comm,Sams | 1 | S.N.A |
| ..2 | M0114 | BN39-00244B | CBF SIGNAL;MO15PS,15P/15P,20276-N,1830mm | 1 | S.A |
| ..2 | T0074 | BN59-00434C | REMOCON;Manet_Multi,TM79,17.5 * 4.3 * 2, | 1 | S.A |
| 0.1 | M0019 | BN92-01585A | ASSY LABEL;LS19DOWSS/XAA,TCO99,DO19WS | 1 | S.N.A |
| 0.1 | M0003 | BN92-01881A | ASSY BOX;LS19DOCSS/XAA | 1 | S.N.A |
| ..2 | BOX | BN69-01157A | BOX-02,MONITOR;S/M940MW(LS19DOW),A-1,-,- | 1.02 | S.N.A |
| ..2 | M0103 | BN72-60001A | LEVER-TOP;LSD210TL,PE-LD,WHITE,TFT_LCD | 1 | S.N.A |

# 2 Product Specifications

## 2-1 Fashion Feature

- MFM Model
- VCT49xy
- W/W model
- High Contrast Ratio(700:1)
- High Luminance(300cd/m2)

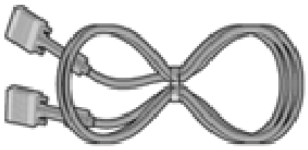
## 2-2 Specifications Comparison to the Old Model

| **Model** | **LDO19WS / LDO19CS** | **MH17ES** |
|---|---|---|
| **Area** | World Wide | China / East-South Asia |
| **Panel** | LTM190M2-L01 | EU-L21 |
| **Response Time** | 8ms | 8ms |
| **Scart Jack** | O | X |
| **Micom** | VCT49xy (Embeded MCU) | TDA15021H |
| **Scaler** | SE6181 | TSU396AWJ-LF |
| **PBA** | | |

## 2-3 Specifications

| Item | Description |
|---|---|
| LCD Panel | TFT-LCD panel, RGB vertical stripe, normaly white, 19-Inch viewable, 0.2835mm pixel pitch |
| Scanning Frequency | 30 kHz ~ 81 kHz(Automatic) |
| Display Colors | 16.7 Million colors |
| Maximum Resolution | Horizontal:1440 Pixels<br>Vertical: 900 Pixels |
| Input Video Signal | Analog, 0.7 Vp-p ± 1% positive at 75 Ω, internally terminated, DVI |
| Input Sync Signal | Type: Seperate H/V automatic synchronization without external switch of sync type, Composite<br>Level: TTL level |
| Maximum Pixel Clock rate | 140 MHz |
| Active Display Horizontal/Vertical | 408.24(H) x 255.15(V) |
| AC power voltage & Frequency | AC 100 ~ 240 Volts (± 10%), 60/ 50 Hz ± 3 Hz |
| Power Consumption | 55 W (max) |
| Dimensions Set (W x H x D) | 18.3 x 16.0 x 8.5 Inches (466 X 406 X 217 mm) |
| Weight (Set/Package) | 6.2 kg (14 lbs) |
| TV / Video | Color system : NTSC, PAL, SAM, PAL-M/N, NT43, PAL60 |
| | Sound system : B/G, I, D/K |
| Antena Input | 75Ω, Coaxial Cable |
| Environmental Considerations | Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C)<br>Operating Humidity : 10 % ~ 80 %<br>Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C)<br>Storage Humidity : 5 % ~ 95 % |
| • Designs and specifications are subject to change without prior notice. | |

## 2-4 Option Specification

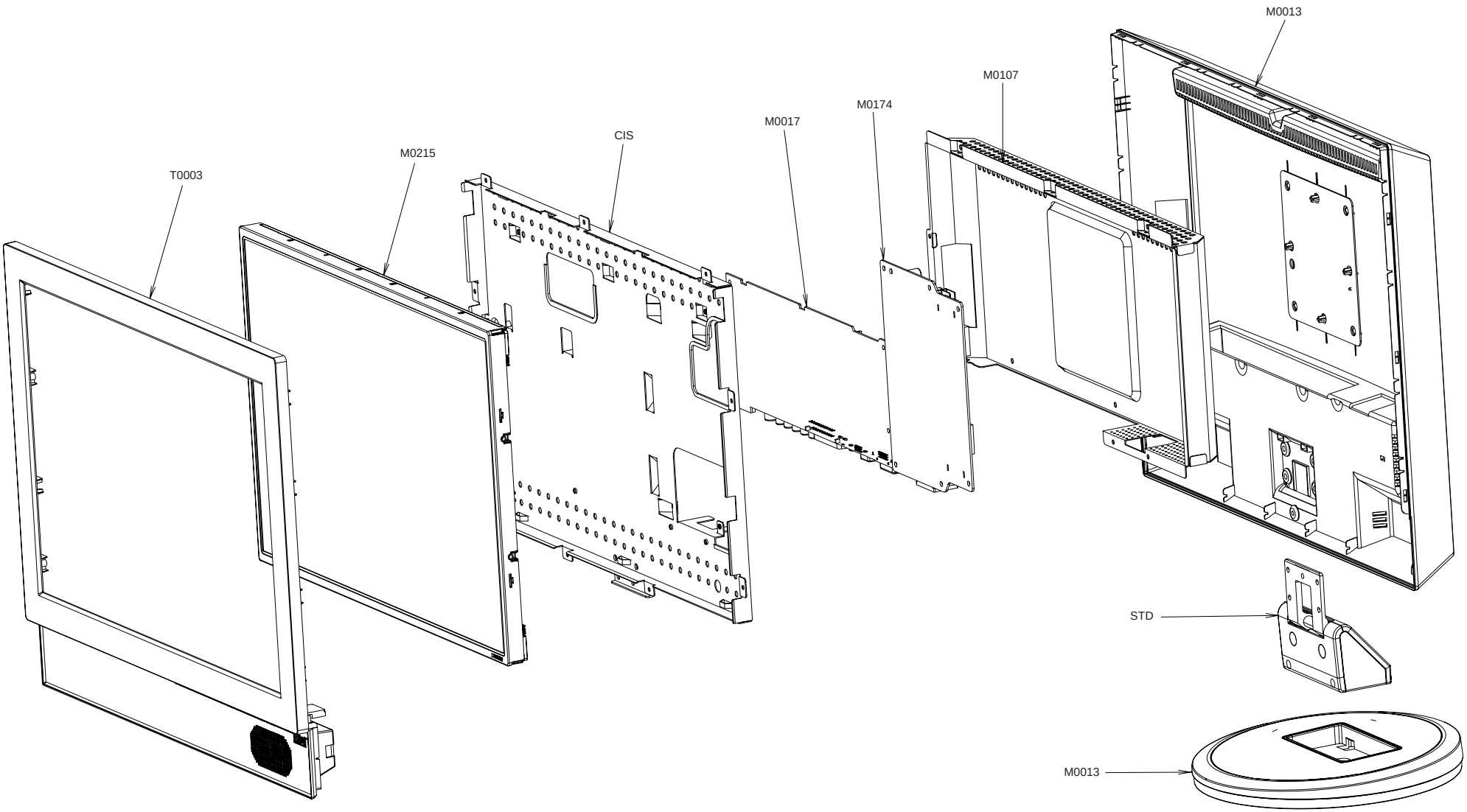
| Item | Item Name | CODE.NO | Remark |
|---|---|---|---|
| | Quick Setup Guide | BH68-00376L | |
| | Warranty Card<br>(Not available in all locations) | BH68-70438A | |
| | User's Guide, Monitor Driver, Natural Color software | BN59-00480D (940MW)<br>BN59-00480W (940MG) | |
|  | D-Sub(15 Pin) Cable | BN39-00244B | |
| | Audio Cable | BN39-00061B | |
| | Power Cord | 3903-000042 | |
| | Remote Control | BN59-00434C | |
| | Batteries (AAA X 2) | 4301-000121 | |
| | Connecter | 3705-001191 | |

# Memo

# 5 Exploded View and Parts List

-You can search for updated part codes through ITSELF web site.
URL : http://itself. sec. samsung.co.kr

## 5-1 LS19DOCSS/EDC, LS19DOCSS/XAA Exploded View



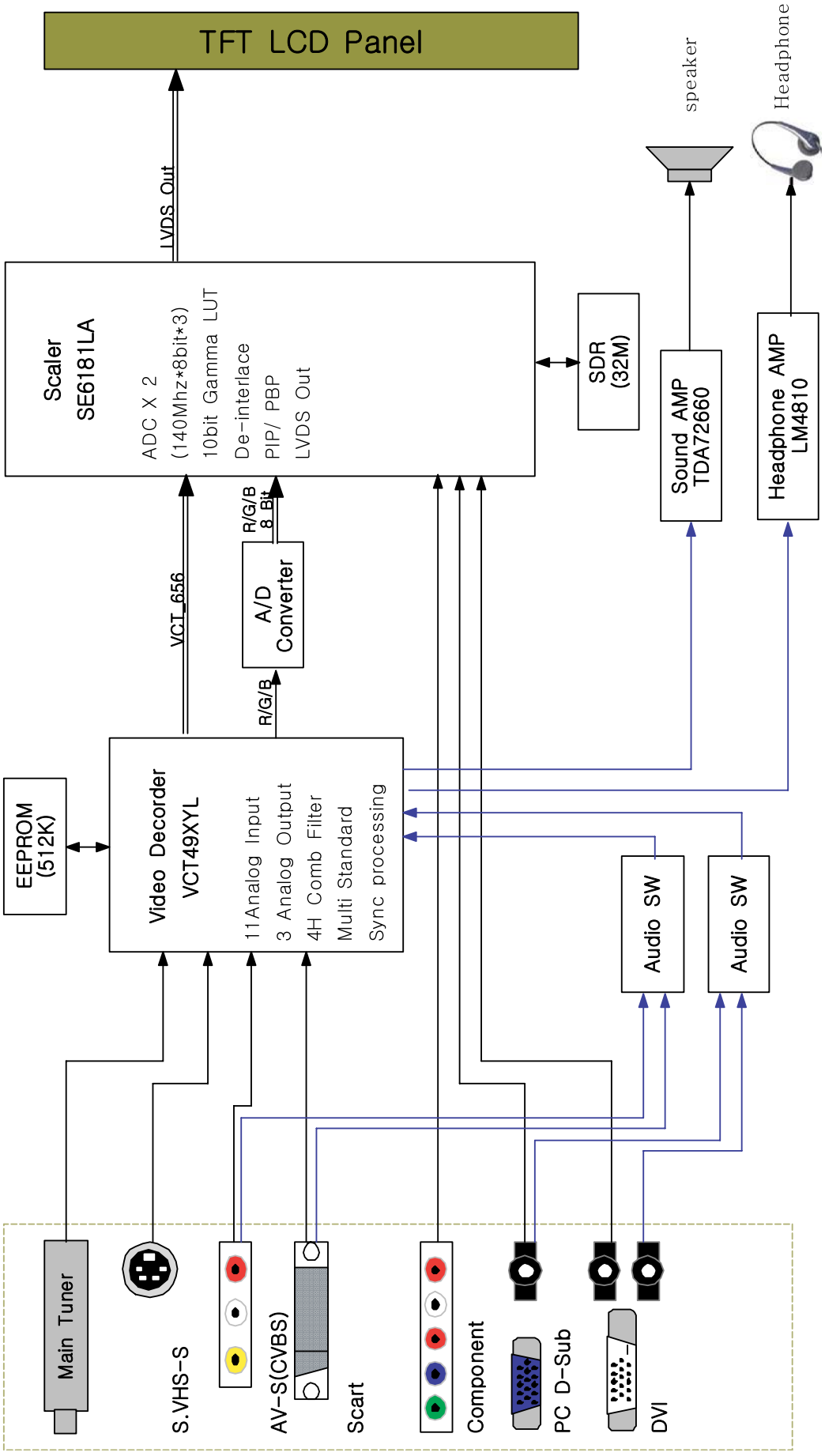
## 5-2 LS19DOCSS/EDC Parts List

| Location.No | CODE-NO | SPECIFICATION & DESCRIPTION | Q'TY | SA/SNA | REMARK |
|---|---|---|---|---|---|
| T0003 | BN96-03793A | ASSY COVER P-FRONT;LS19DOC,ABS HB,GR70(S | 1 | S.A | |
| M0215 | BN07-00280A | LCD-PANEL;LTM190M2-L01-D016,Dvorak,6BIT | 1 | S.A | |
| CIS | BN96-02505A | ASSY SHIELD P-PANEL;LS19DOW,SECC,T0.8,AM | 1 | S.N.A | |
| M0017 | BN91-00957F | ASSY CHASSIS-STB;LS19DOWSS/EDC,DO19WS | 1 | S.A | |
| M0174 | BN44-00116B | IP BOARD;48135T(WN),DVORAK 19",3.2 ~4.8m | 1 | S.N.A | |
| M0107 | BN63-02132A | SHIELD-COVER;DV19WS,SECC,T0.8 | 1 | S.N.A | |
| M0013 | BN96-02503A | ASSY COVER P-REAR;LS19DOW,HIPS HB,BK24 | 1 | S.A | |
| STD | BN96-02966A | ASSY STAND P-BODY;LS19DOW,HIPS HB,BK24,Z | 1 | S.A | |
| M0013 | BN96-02332D | ASSY STAND P-BASE;HA19AS/BS,HIPS,GR70 & | 1 | S.A | |

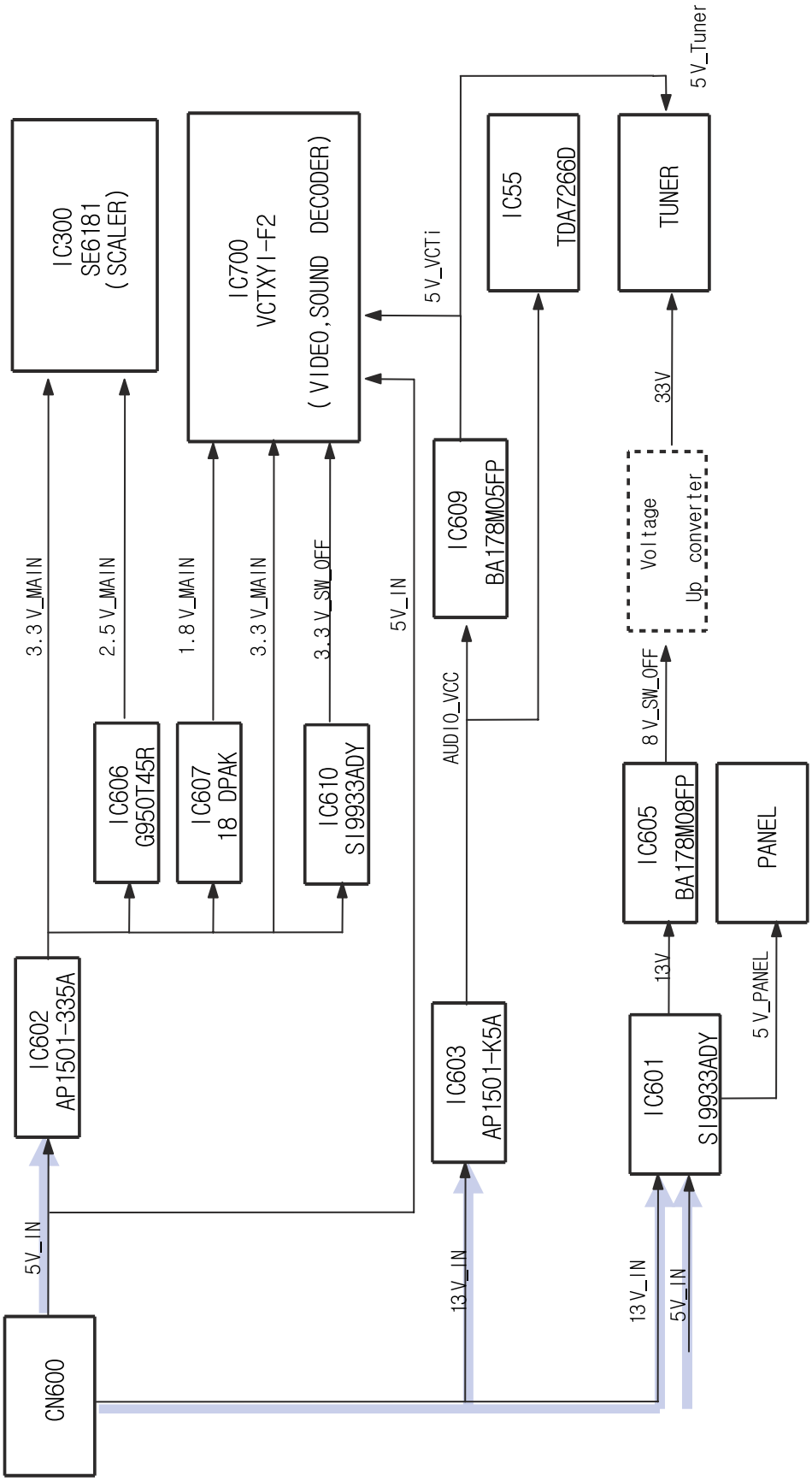
## 5-2 LS19DOCSS/XAA Parts List

| Location.No | CODE-NO | SPECIFICATION & DESCRIPTION | Q'TY | SA/SNA | REMARK |
|---|---|---|---|---|---|
| T0003 | BN96-03793A | ASSY COVER P-FRONT;LS19DOC,ABS HB,GR70(S | 1 | S.A | |
| M0215 | BN07-00280A | LCD-PANEL;LTM190M2-L01-D016,Dvorak,6BIT | 1 | S.A | |
| CIS | BN96-02505A | ASSY SHIELD P-PANEL;LS19DOW,SECC,T0.8,AM | 1 | S.N.A | |
| M0017 | BN91-00957F | ASSY CHASSIS-STB;LS19DOWSS/EDC,DO19WS | 1 | S.A | |
| M0174 | BN44-00116B | IP BOARD;48135T(WN),DVORAK 19",3.2 ~4.8m | 1 | S.N.A | |
| M0107 | BN63-02132A | SHIELD-COVER;DV19WS,SECC,T0.8 | 1 | S.N.A | |
| M0013 | BN96-02503A | ASSY COVER P-REAR;LS19DOW,HIPS HB,BK24 | 1 | S.A | |
| STD | BN96-02966A | ASSY STAND P-BODY;LS19DOW,HIPS HB,BK24,Z | 1 | S.A | |
| M0013 | BN96-02332D | ASSY STAND P-BASE;HA19AS/BS,HIPS,GR70 & | 1 | S.A | |

# 7 Block Diagram



# Power Tree


CN600
5V_IN
IC602
AP1501-335A
3.3V_MAIN
IC606
G950T45R
2.5V_MAIN
IC607
18 DPAK
1.8V_MAIN
IC610
SI9933ADY
3.3V_MAIN
3.3V_SW_OFF
IC300
SE6181
(SCALER)
IC700
VCTXY1-F2
(VIDEO,SOUND DECODER)
5V_IN
IC603
AP1501-K5A
13V_IN
AUDIO_VCC
IC609
BA178M05FP
5V_VCTi
IC55
TDA7266D
5V_Tuner
TUNER
33V
Voltage
Up converter
8V_SW_OFF
IC605
BA178M08FP
13V
IC601
SI9933ADY
13V_IN
5V_IN
5V_PANEL
PANEL

# 3 Alignments and Adjustments

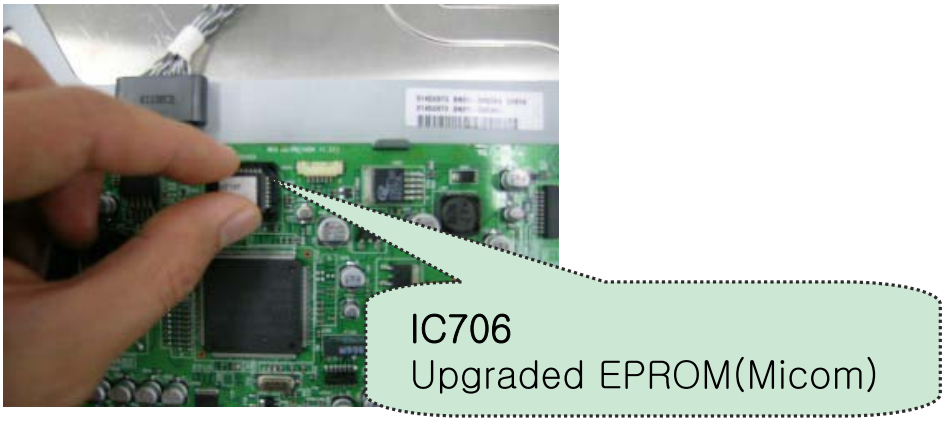
This section describes to adjust LCD monitor after replacing EEPROM, Main PBA or Panel.

## 3-1 Program Upgrade

**Change MICOM**
: If the similer happenings occur, EEPROM can be changed

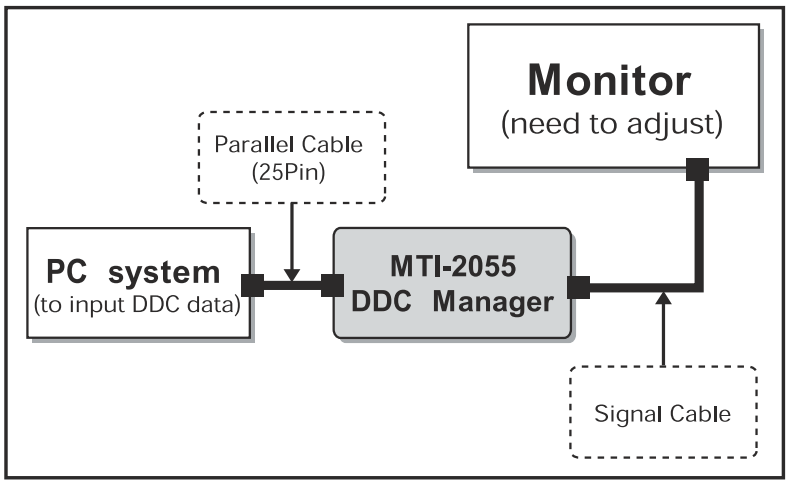
-. EX1) When screen appears but remote control and function key aren't working
-. EX2) When LED is on but the screen doesn't appear
-. EX3) After mass production, when the micom program version is up-graded

* MICOM replacement can be done when Service Bulletin issue is in practice.
The process of working need to be prepare on Service Bulletin.




As the visual sample shown, after disassembling the set (refer to SET disassemble), remove the Micom in the exist IC202 Socket and replace new Micom.
- Use appropriate JIG or any sharp tool and place in the both corners to assist in removing.
  (Be aware! If the socket cause any damage after replacement the monitor will not function properly.)
- When inserting, attend to IC No.1 direction and press with suitable amount of strength.
- After replacement, in case of EEPROM Clear, enter to Factory mode and perform into action.

## 3-2 DDC JIG installation



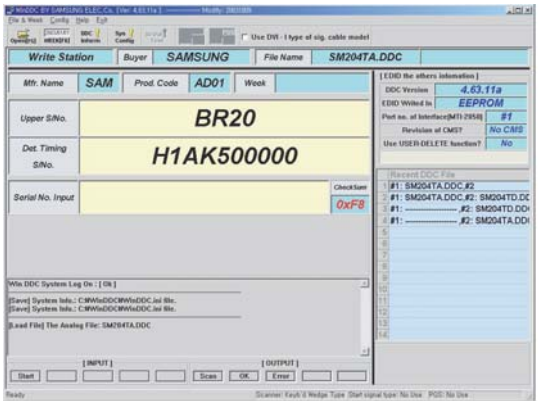
Connect DDC JIG.

PC parallel port ----- DDC JIG ----- Monitor

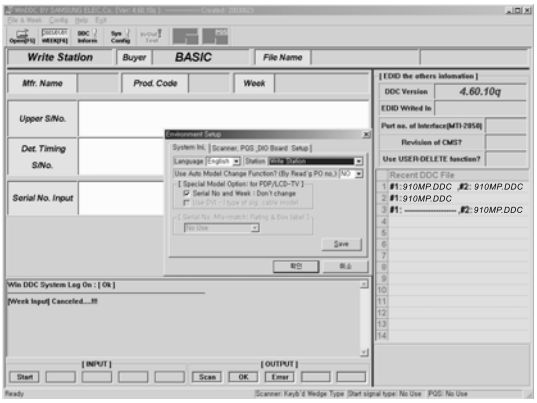
JIG cable

D_sub cable

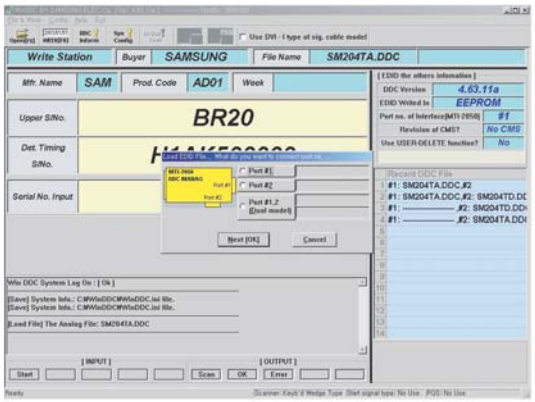
# 3-3 EDID Installation with Windows Program



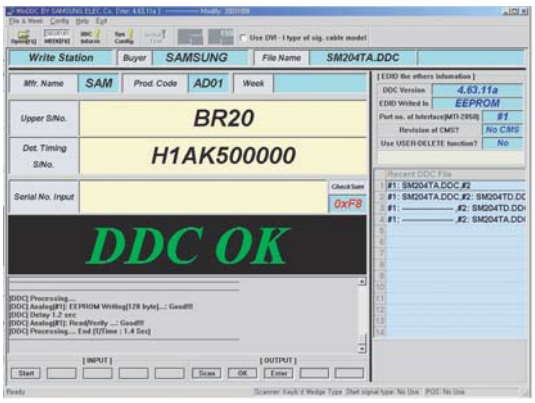

1. Execute "WinDDC.exe"




2. Click "Sys Config"
   Select "Station : Write station"
   Check "Serial No and Week : Don't change"
   Click "Save"




3. Click "Open" icon.
   Select "Connected Port #1" and Next "OK".
   * File Name - SM940MWA.DDC : Analog
   - SM940MWD.DDC : Digital
   Press enter key on your keyboard.




4. Confirm the "DDC OK".

**- After Replacing the Main Board**

- EDID Installation (Analog and Digital)

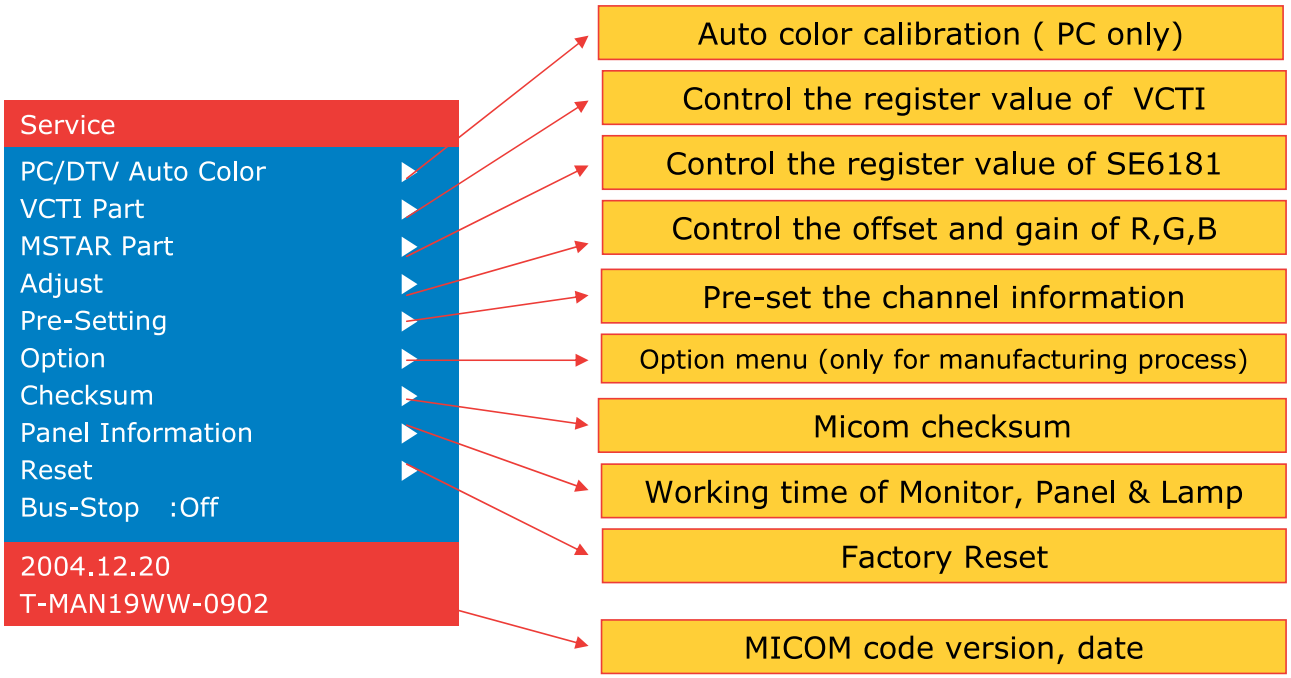
# 3-4 Factory Mode Adjustments

## 3-4-1 Factory Mode Admission

- PAL : Power off → Info → Menu → Power on

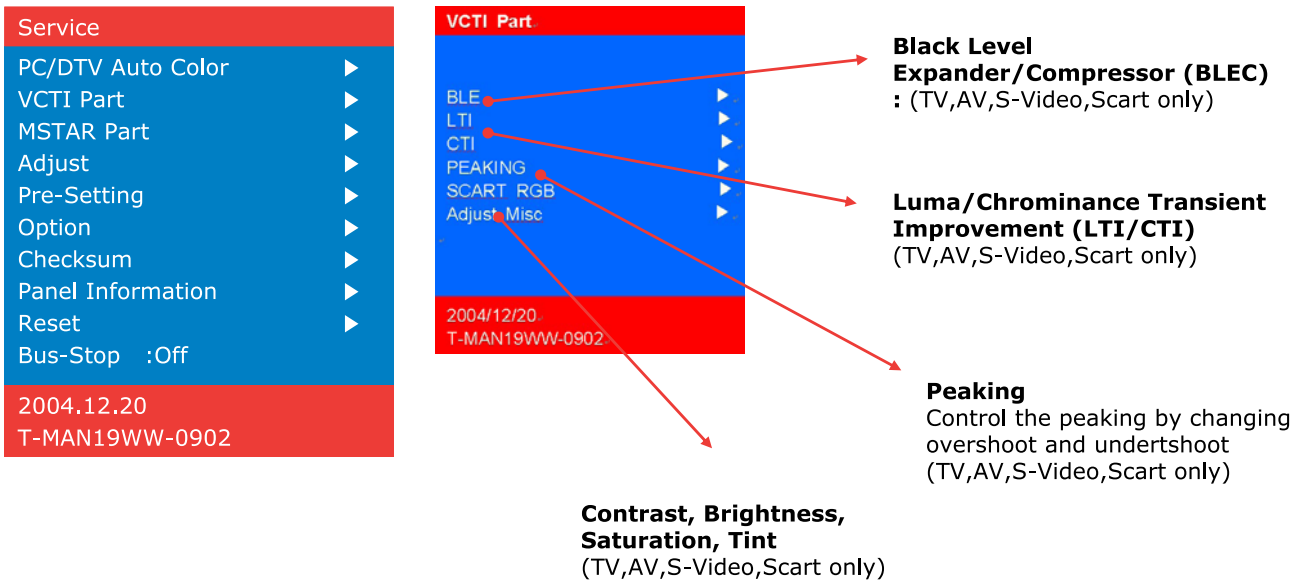
- NTC : Power off → MUTE → 1 → 8 → 2 → Power on

## 3-4-2 Service Mode Menu



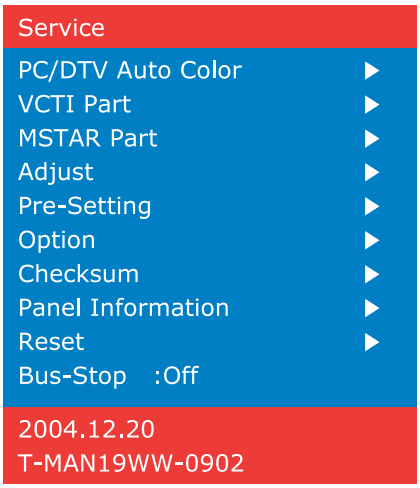

## -. DDP Part

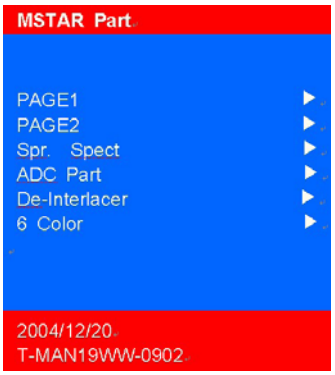
Only for picture quality setting at stage of development



## -. MSTAR Part

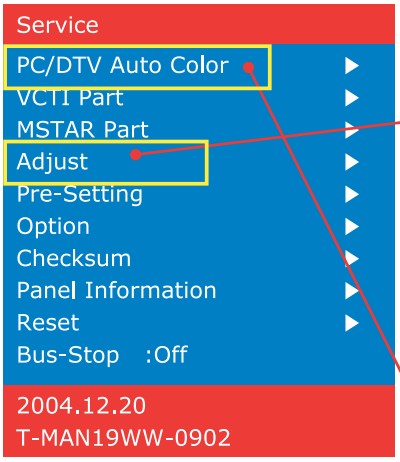
Only for picture quality setting at stage of development

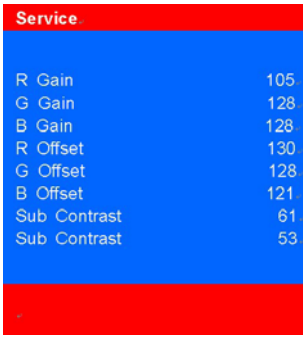



**Scaler(SE6181) Control**
Control the register value of each functional block of scaler, SE6181

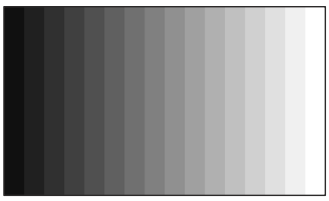
## -. Adjust , PC/DTV Auto Color



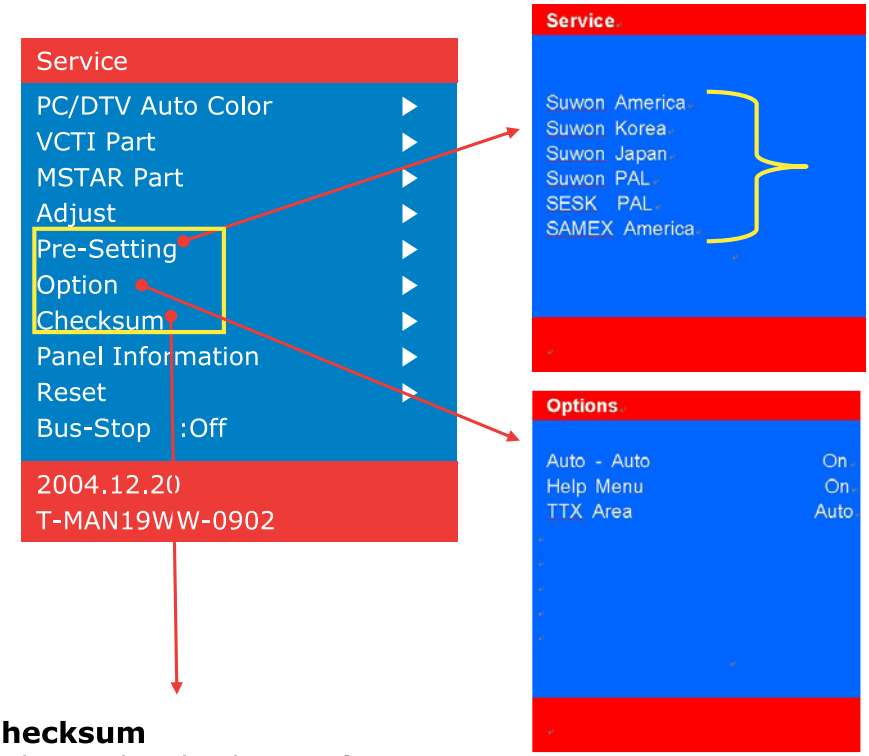

**RGB input gain/offset**

Only for picture quality setting at stage of development



**PC/DTV Auto Color**
▶ PC analog : 1280x1024/60Hz, 16Gray pattern

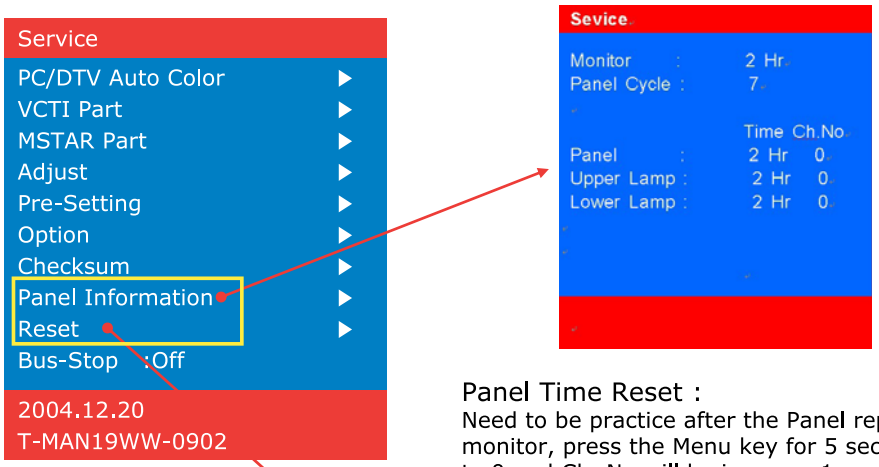
## -. Pre-Setting, Options , Checksum




Set up channel for each factory

**Checksum**
Indicate the checksum of Micom

## -. Panel Information , Reset

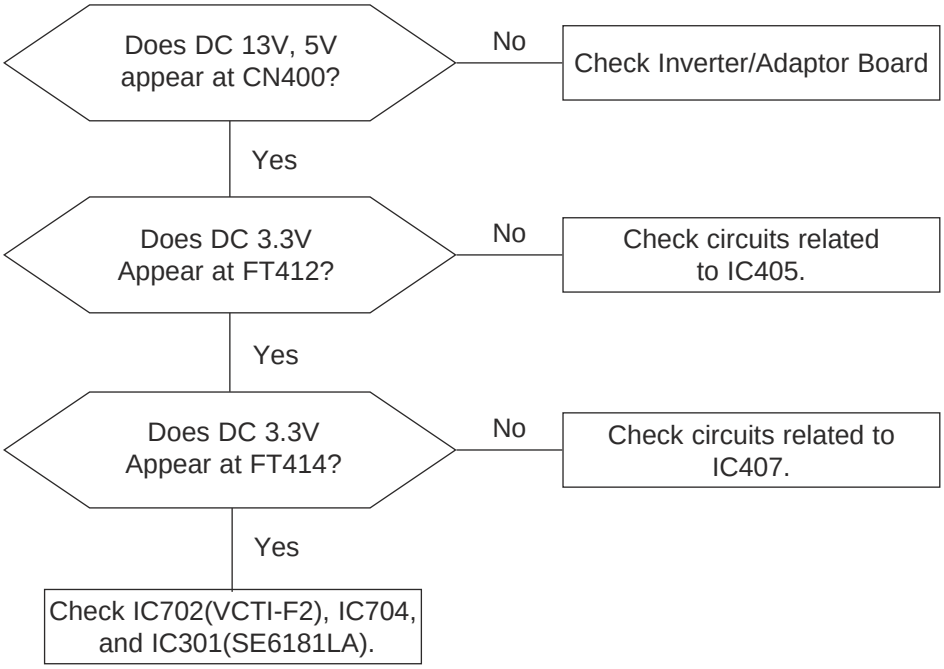


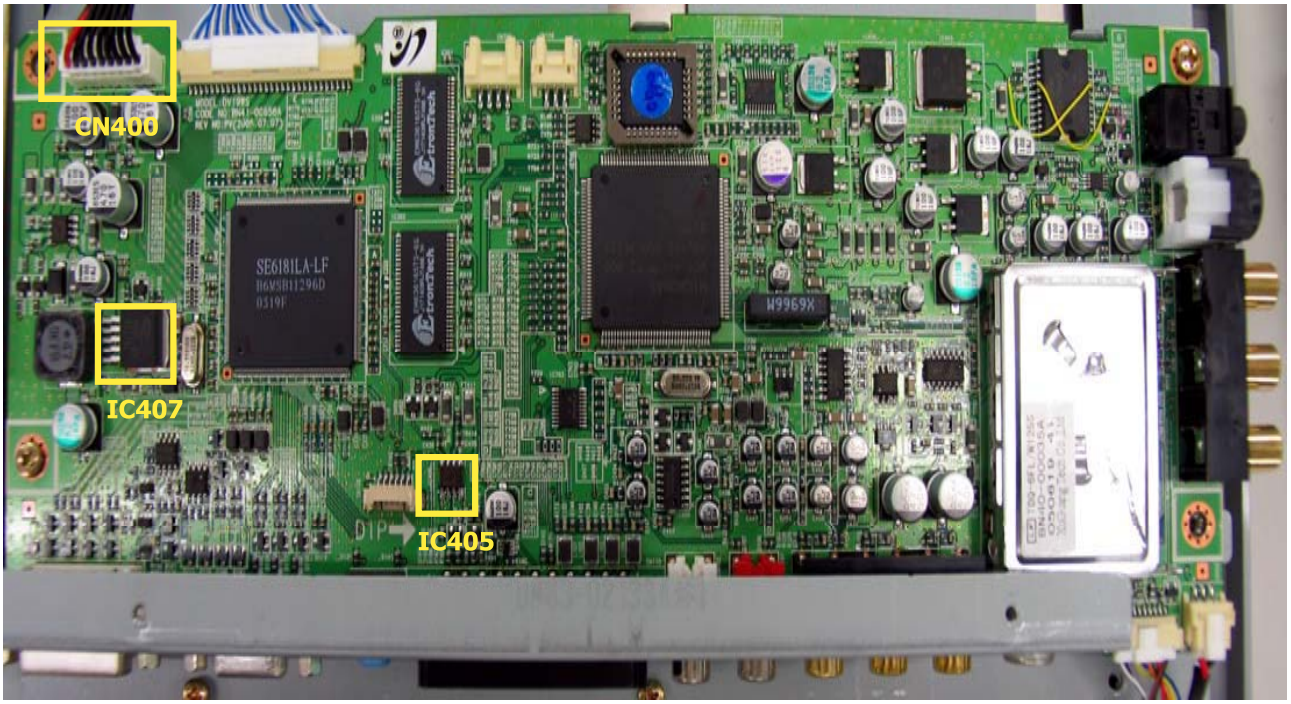

Panel Time Reset :
Need to be practice after the Panel replacement. In the front portion of the monitor, press the Menu key for 5 seconds, then the Time will be changed to 0 and Ch. No will be increase 1.

Factory Reset : All of OSD values are initialized
After Factory Reset, the monitor power is shut downed automatically

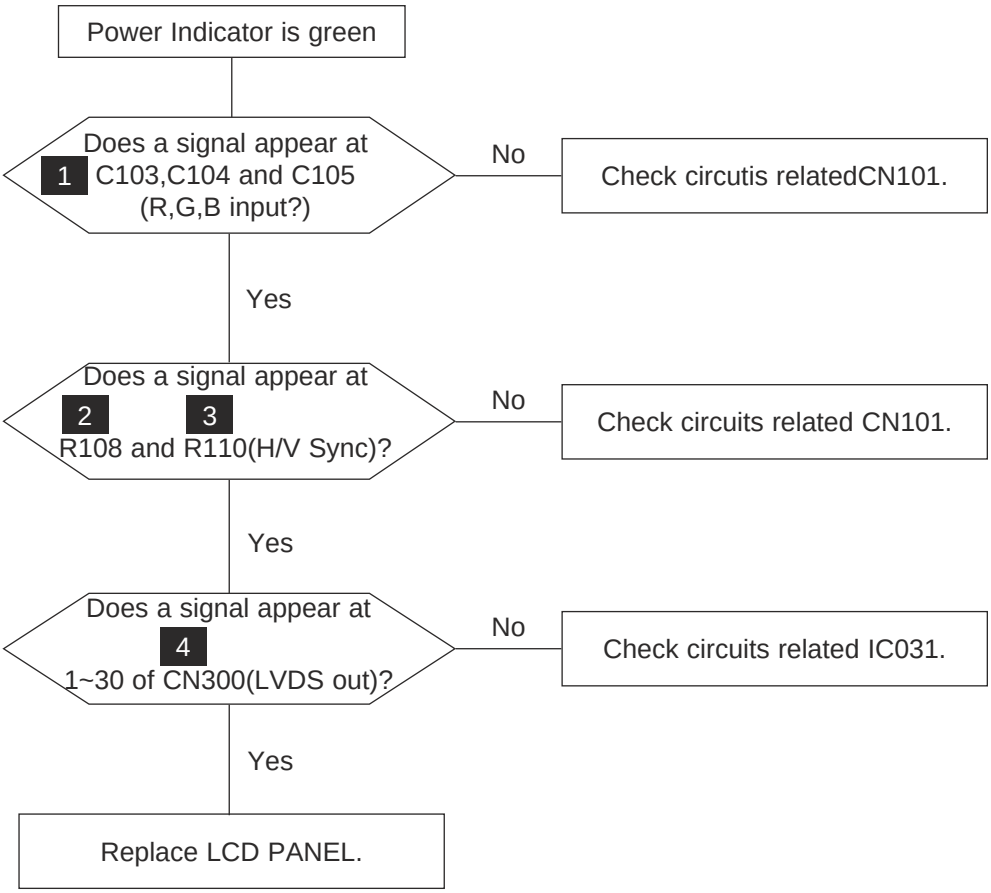
# 4 Troubleshooting

## 4-1 No Power



# 4-2 No Video (PC Signal)



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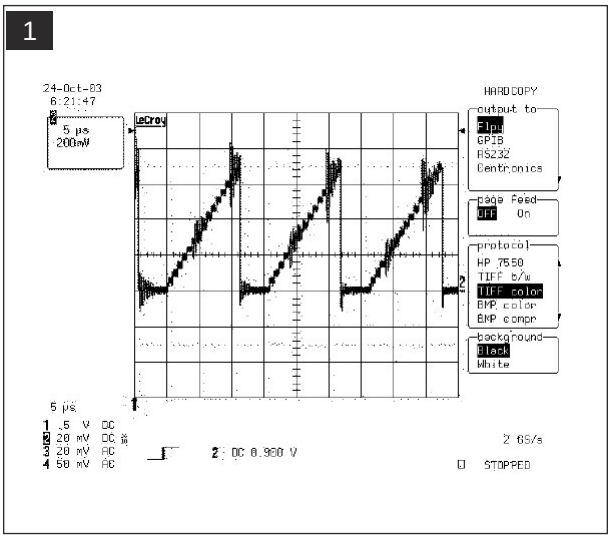


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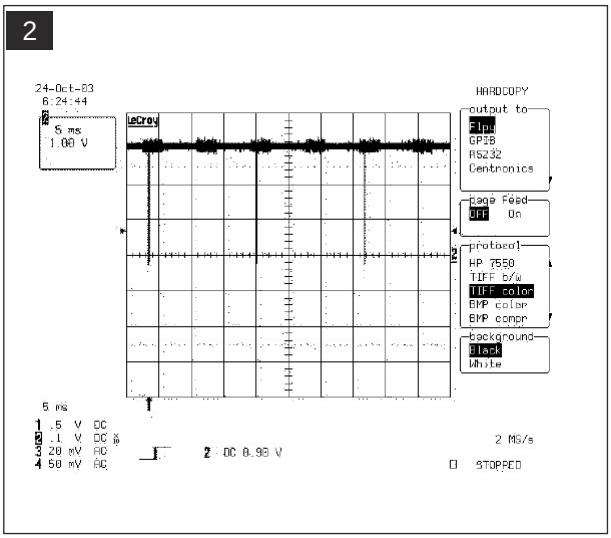


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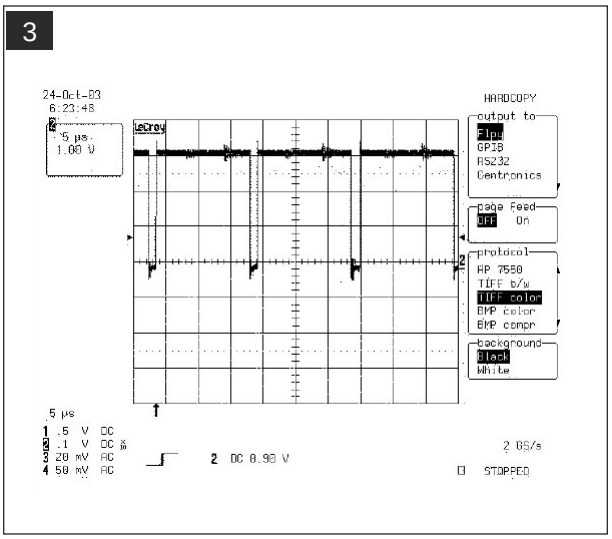


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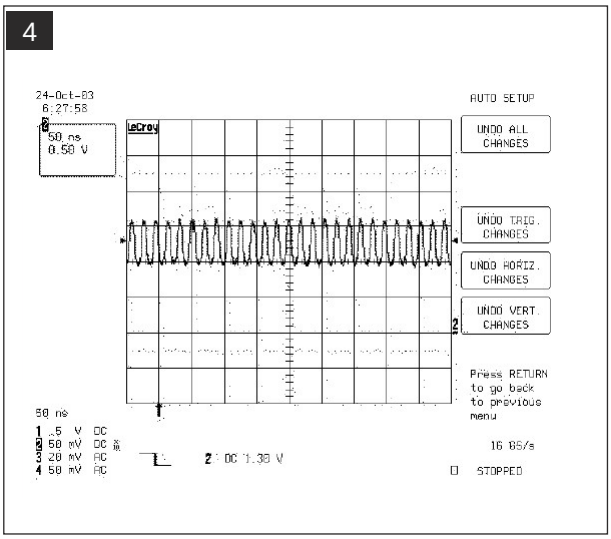
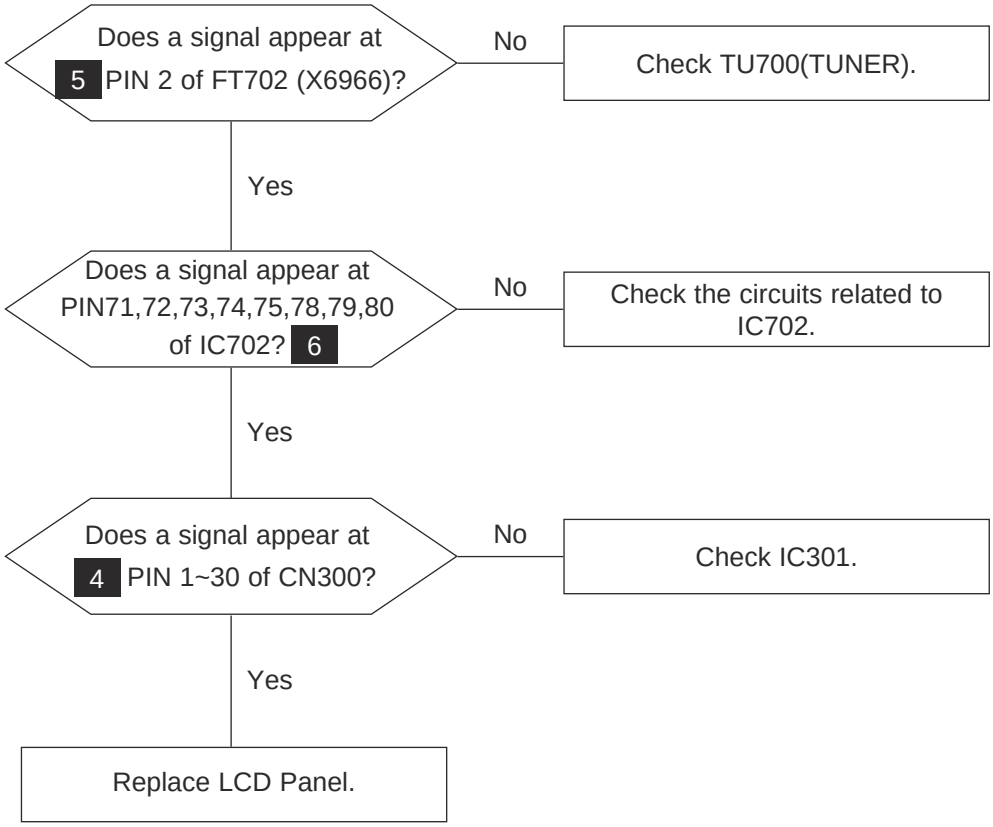


# 4-3 No Picture (TV)



# WAVEFORMS

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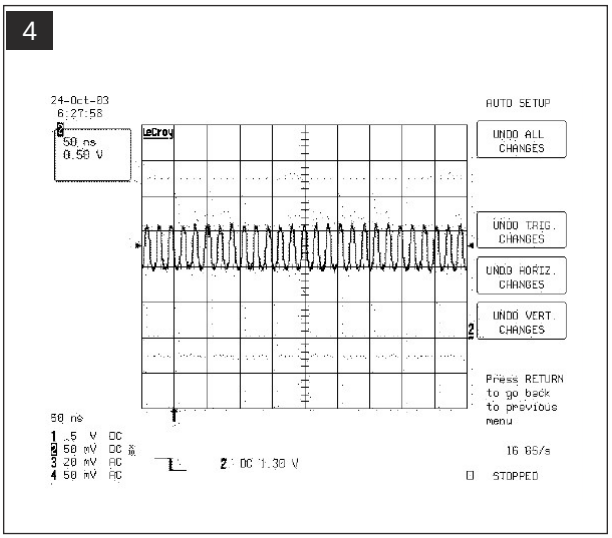


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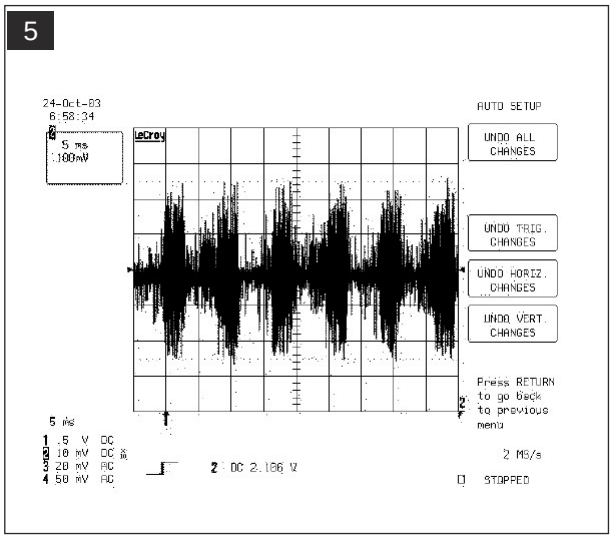


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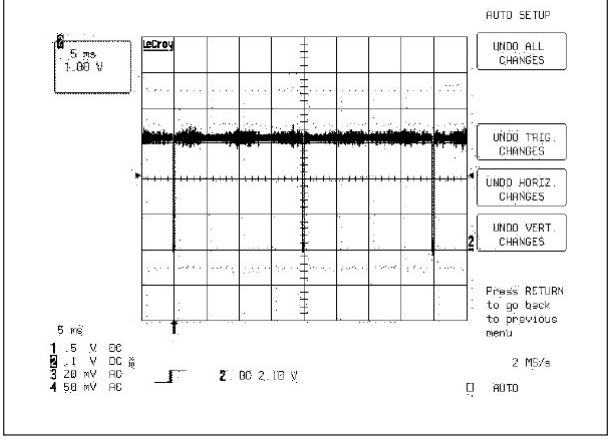
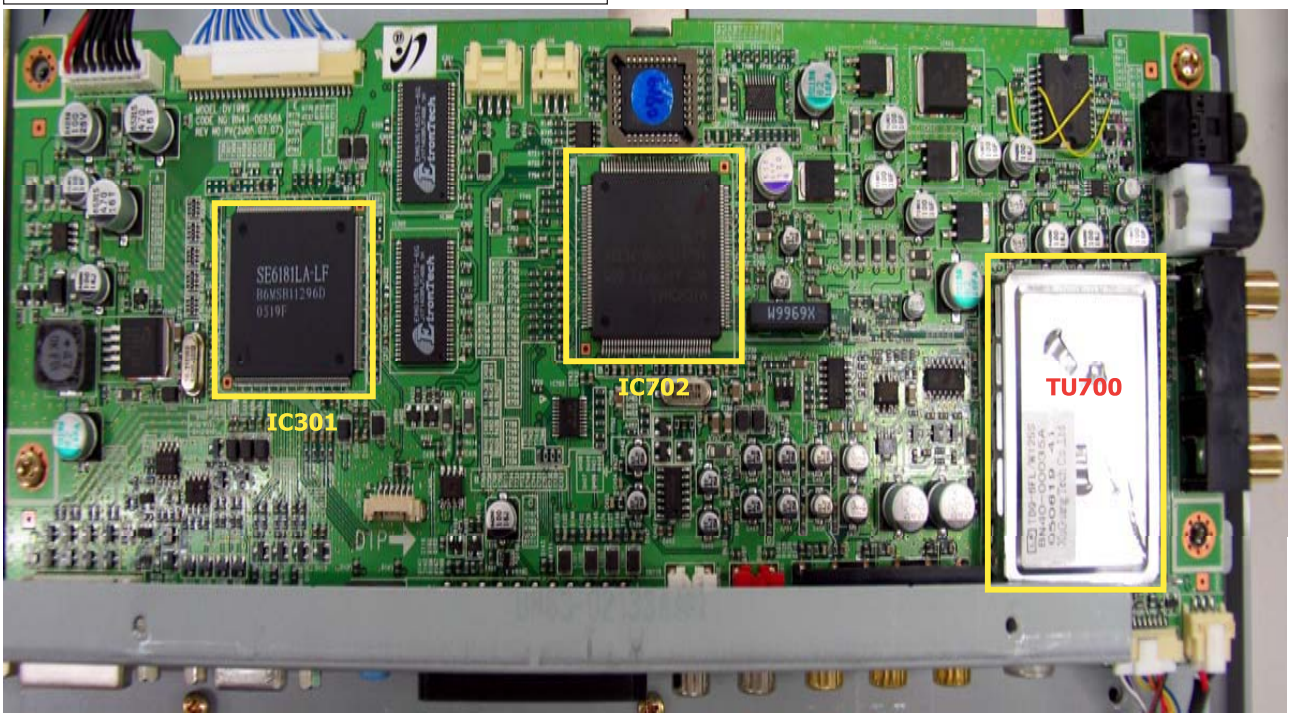
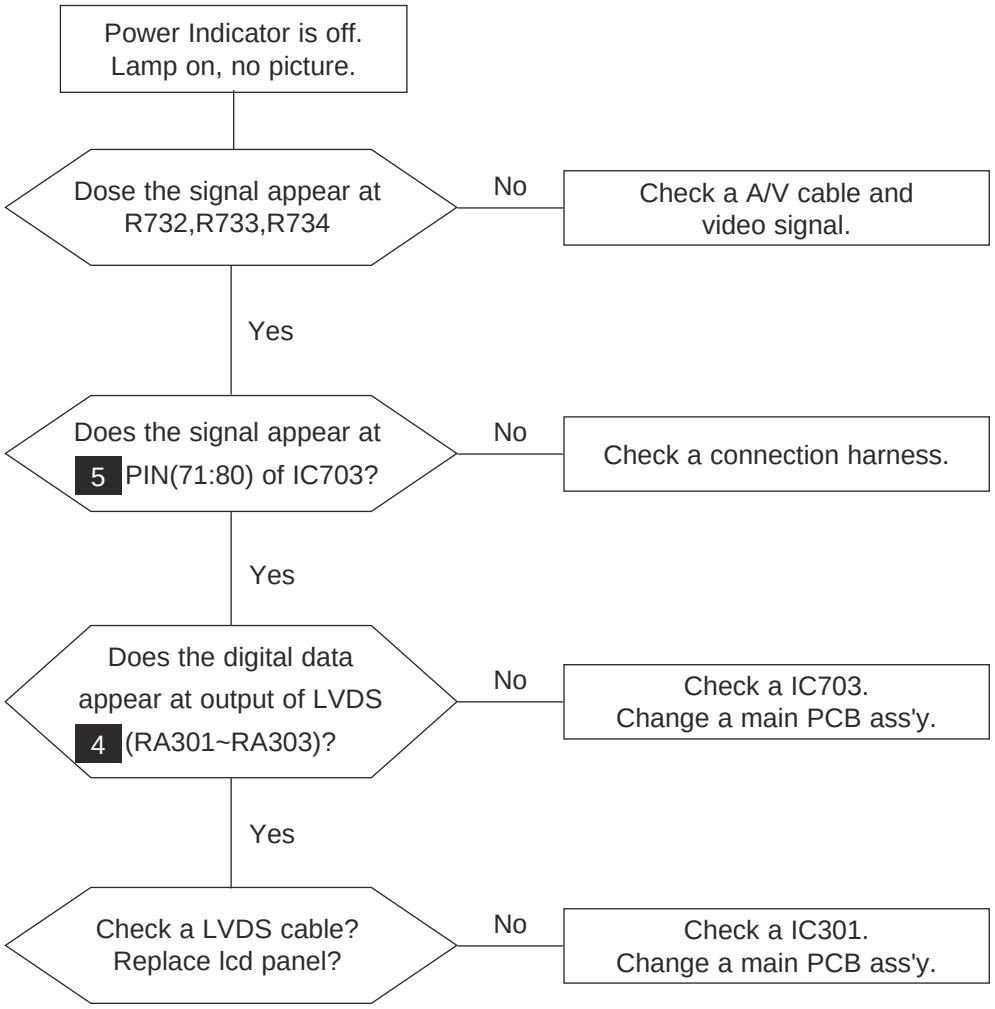


## 4-4 No Picture (Video/S-VIDEO/SCART )



## WAVEFORMS

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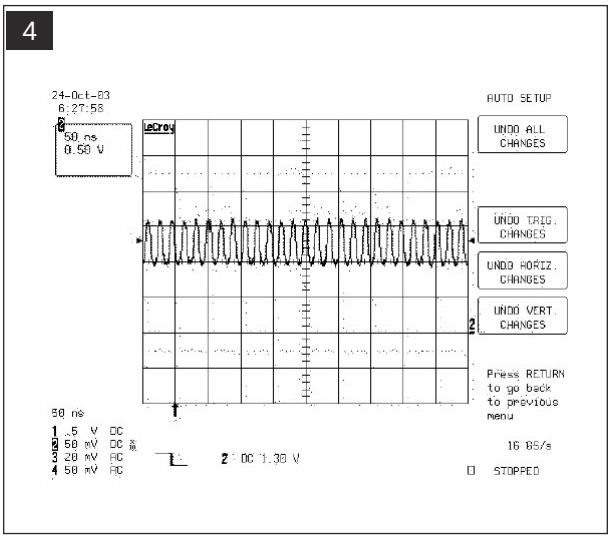


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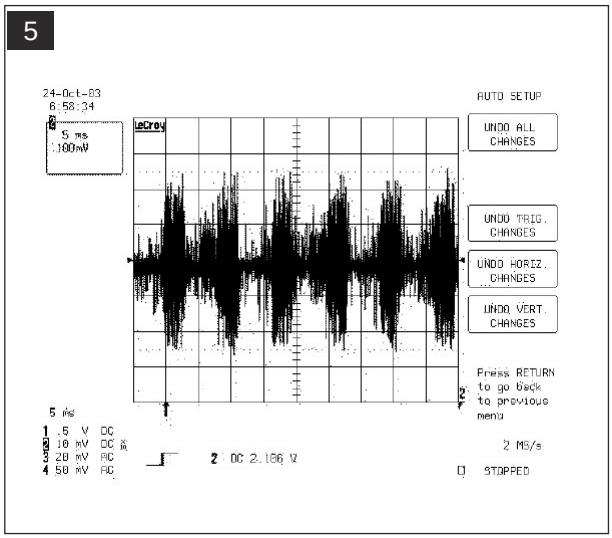
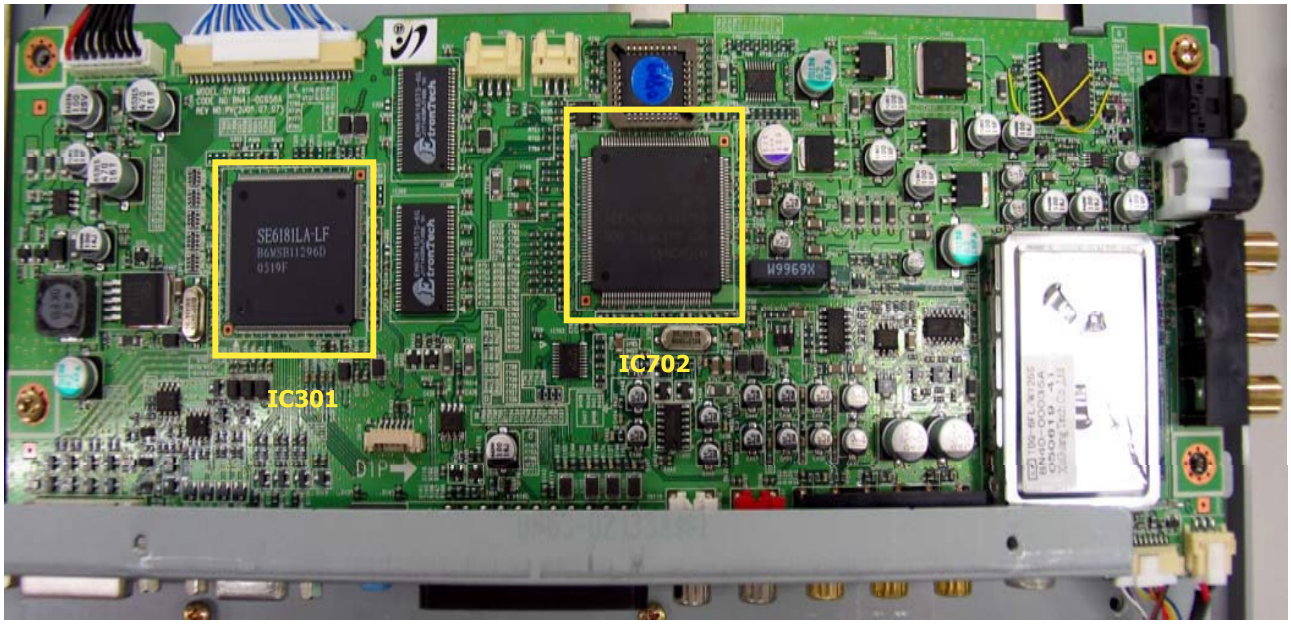
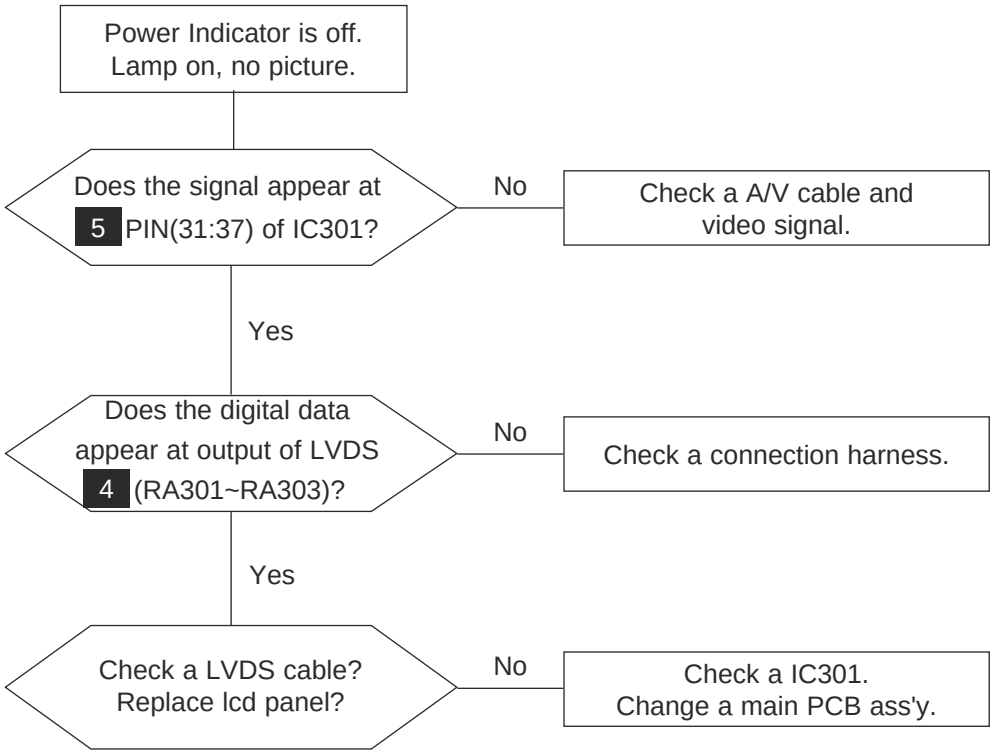


## 4-5 No Picture (COMPONENT)



## WAVEFORMS

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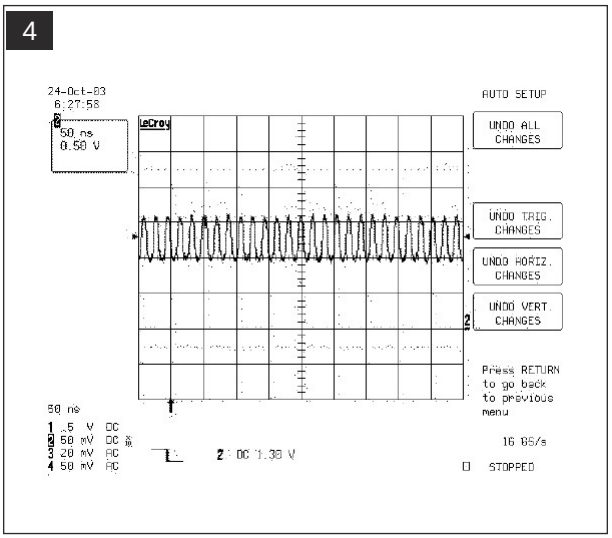


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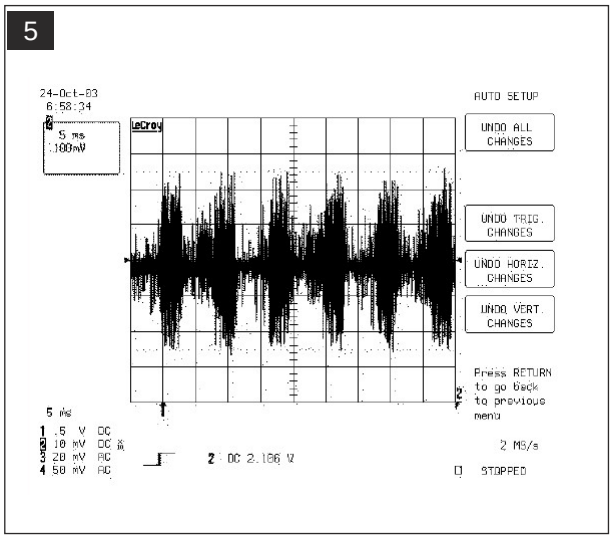
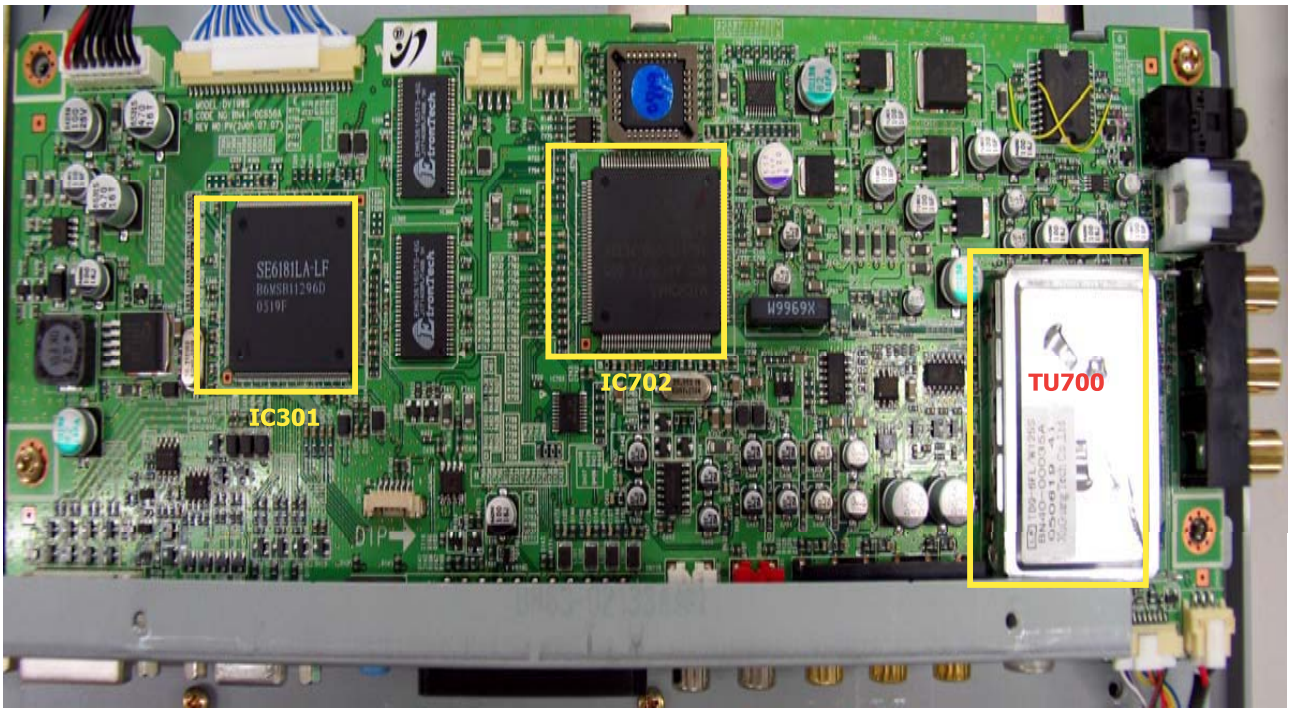
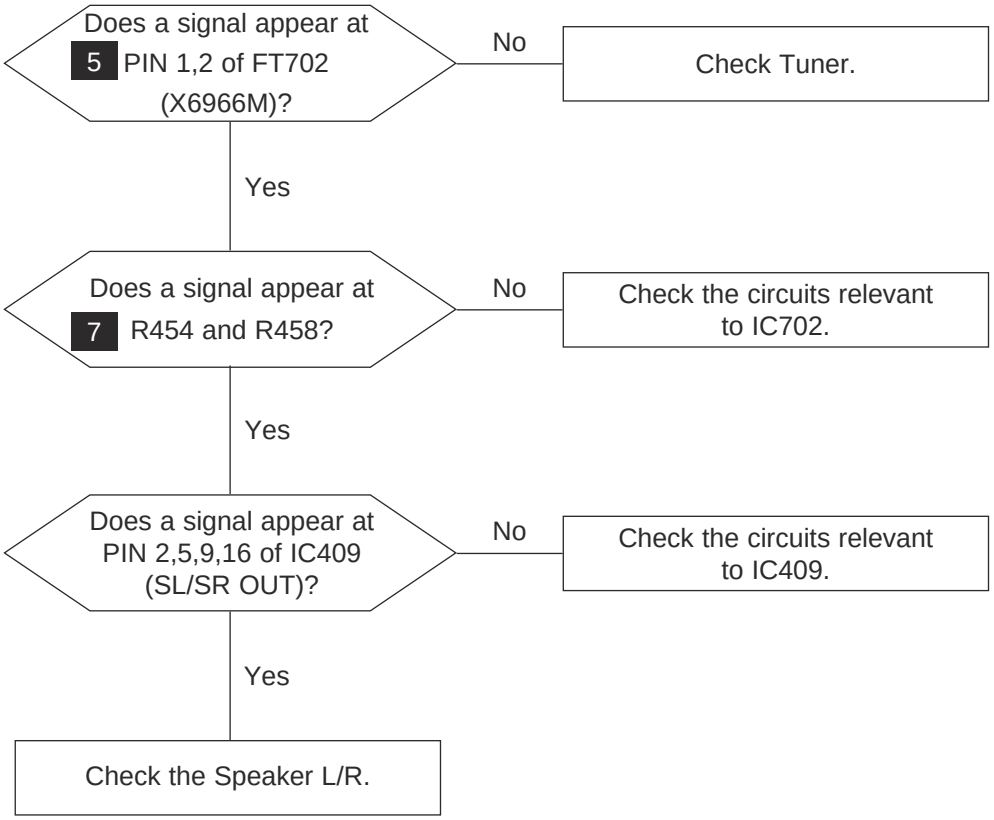


# 4-6 No Sound (TV)



# WAVEFORMS

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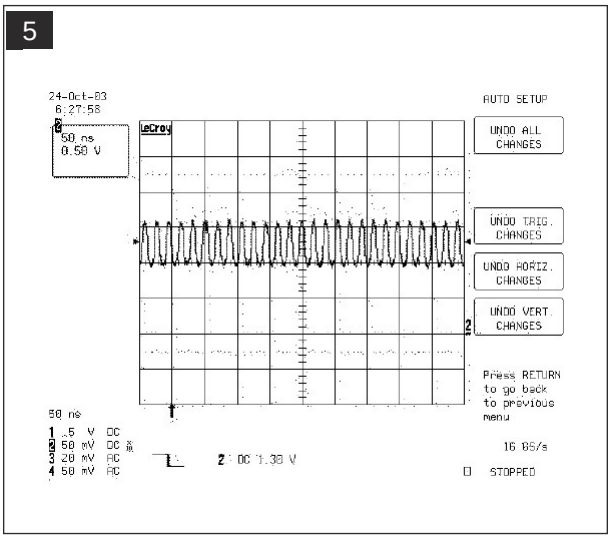


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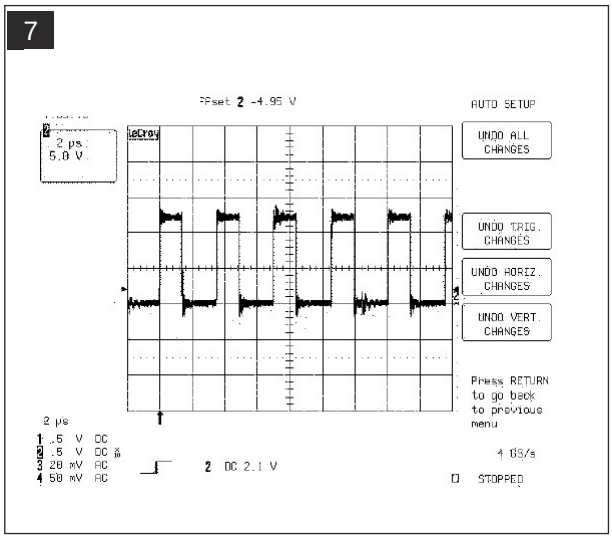
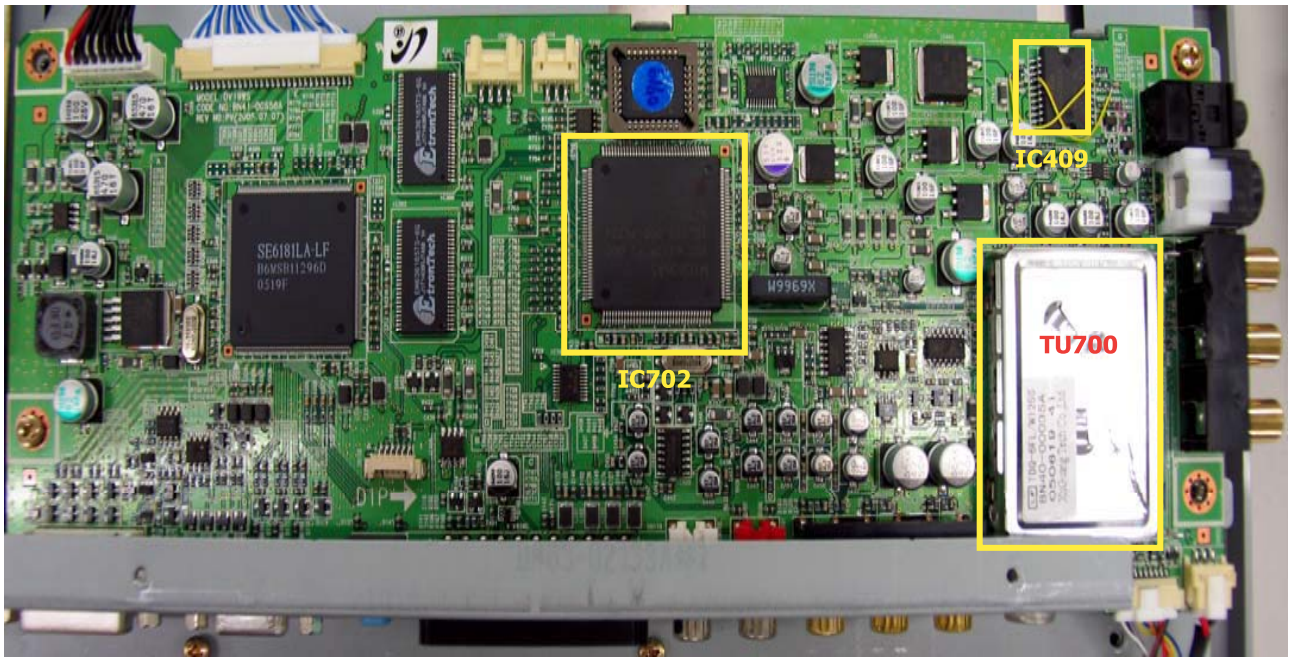
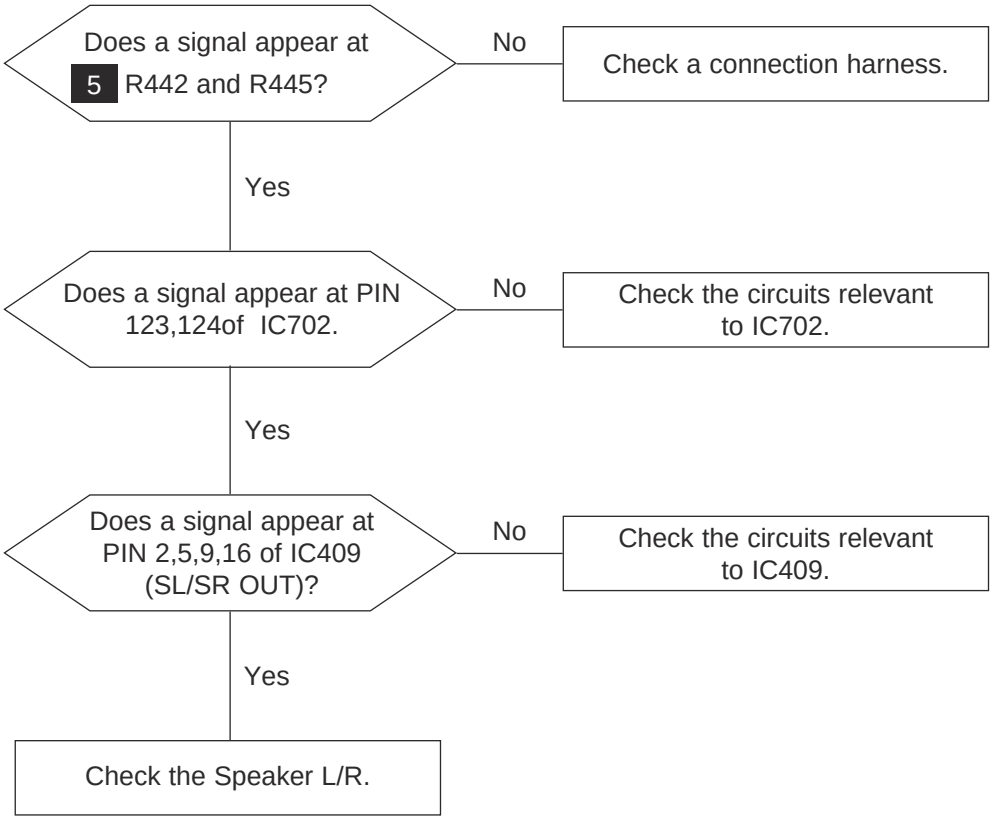


# 4-7 No Sound (COMPONENT)



# WAVEFORMS

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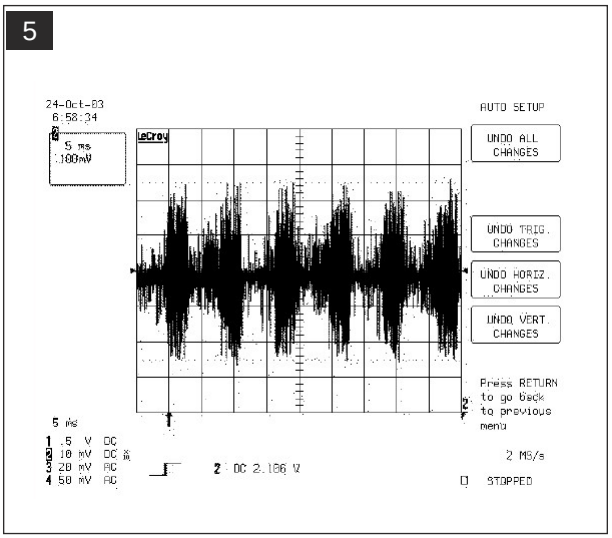
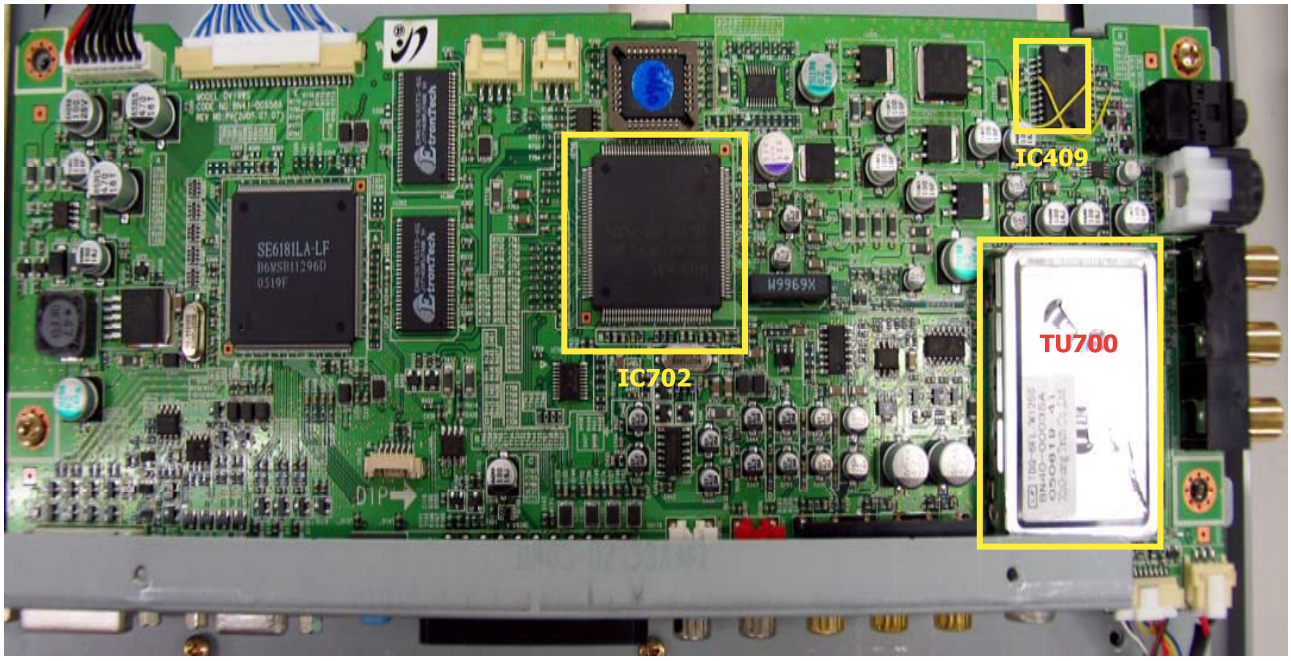
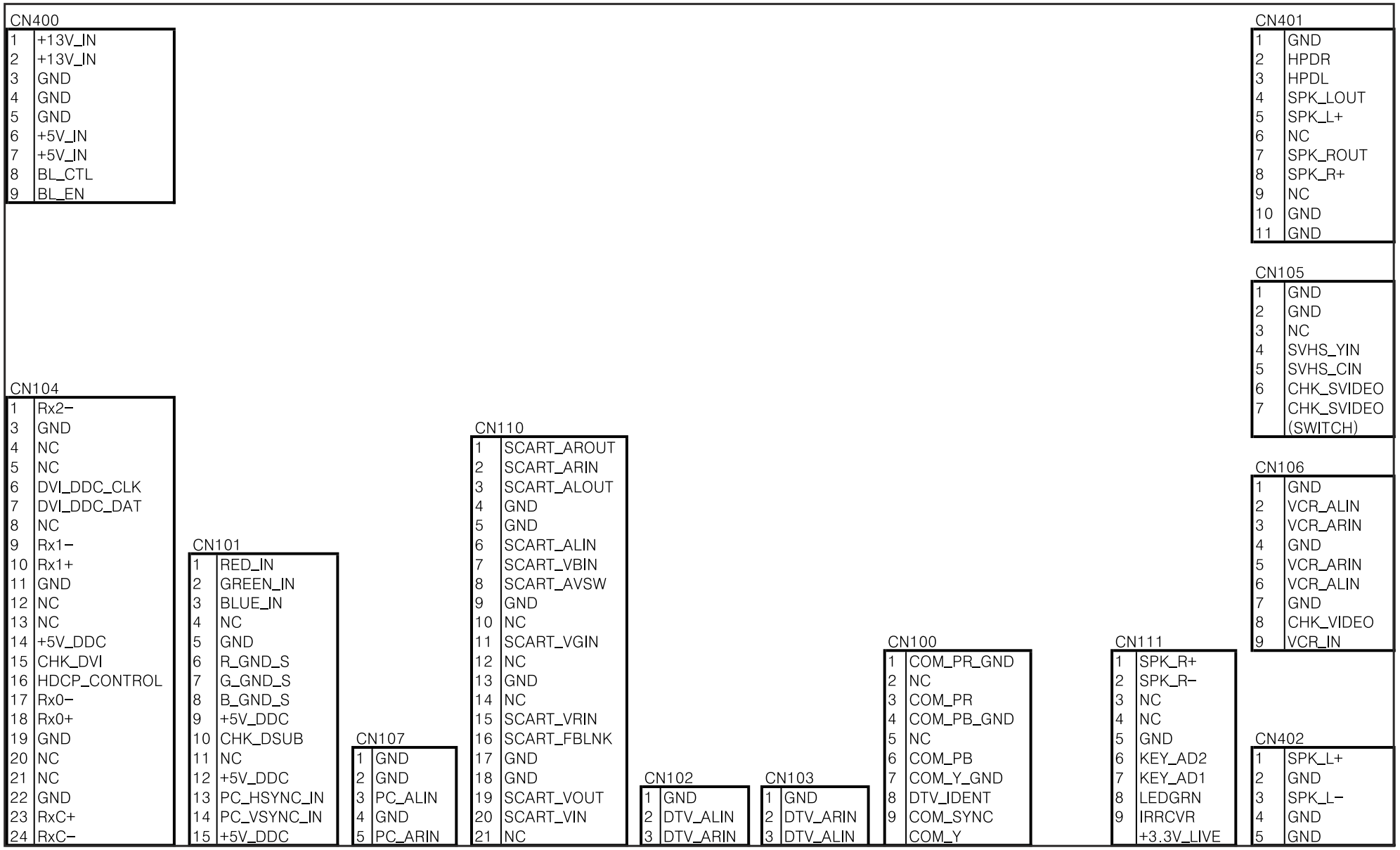

24-Oct-03
6:58:34
AUTO SETUP
UNDO ALL CHANGES
UNDO TRIG. CHANGES
UNDO HORIZ. CHANGES
UNDO VERT. CHANGES
Press RETURN to go back to previous menu
5 ms
100mV
5 ms
1 .5 V DC
2 10 mV DC
3 20 mV AC
4 50 mV AC
2 DC 2.186 V
2 MS/s
STOPPED


IC409
IC702
TU700
SE6181LA-LF
W9969X

# Memo

# 8 Wiring Diagram



Memo

# 1 Precautions

Follow these safety, servicing and ESD precautions to prevent damage and to protect against potential hazards such as electrical shock.

## 1-1 Safety Precautions

### 1-1-1 Warnings

1. For continued safety, do not attempt to modify the circuit board.
2. Disconnect the AC power and DC power jack before servicing.

### 1-1-2 Servicing the LCD Monitor

1. When servicing the LCD Monitor, Disconnect the AC line cord from the AC outlet.
2. It is essential that service technicians have an accurate voltage meter available at all times. Check the calibration of this meter periodically.

### 1-1-3 Fire and Shock Hazard

Before returning the monitor to the user, perform the following safety checks:

1. Inspect each lead dress to make certain that the leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the monitor.
2. Inspect all protective devices such as nonmetallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
3. Leakage Current Hot Check (Figure 1-1):

   **WARNING** : Do not use an isolation transformer during this test.

   Use a leakage current tester or a metering system that complies with American National Standards Institute (*ANSI C101.1, Leakage Current for Appliances*), and Underwriters Laboratories (*UL Publication UL1410, 59.7*).

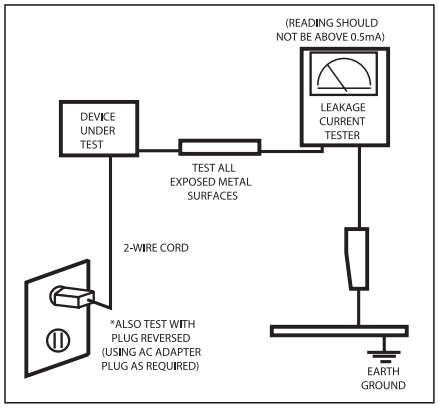



Figure 1-1. Leakage Current Test Circuit

4. With the unit completely reassembled, plug the AC line cord directly into a 120V AC outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

### 1-1-4 Product Safety Notices

Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection. The protection they give may not be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by ⚠ on schematics and parts lists. A substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire and/or other hazards. Product safety is under review continuously and new instructions are issued whenever appropriate.

# 1-2 Servicing Precautions

**WARNING:** An electrolytic capacitor installed with the wrong polarity might explode.

**Caution:** Before servicing units covered by this service manual, read and follow the Safety Precautions section of this manual.

**Note:** If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions, always follow the safety precautions.

## 1-2-1 General Servicing Precautions

1. Always unplug the unit's AC power cord from the AC power source and disconnect the DC Power Jack before attempting to:
   (a) remove or reinstall any component or assembly, (b) disconnect PCB plugs or connectors, (c) connect a test component in parallel with an electrolytic capacitor.
2. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
3. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the area around the serviced part has not been damaged.
4. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
5. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500 V) to the blades of the AC plug.

   The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
6. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

# 1-3 Static Electricity Precautions

Some semiconductor (solid state) devices can be easily damaged by static electricity. Such components are commonly called Electrostatically Sensitive Devices (ESD). Examples of typical ESD are integrated circuits and some field-effect transistors. The following techniques will reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. To avoid a shock hazard, be sure to remove the wrist strap before applying power to the monitor.
2. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of an electrostatic charge.
3. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESDs.
4. Use only a grounded-tip soldering iron to solder or desolder ESDs.
5. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESDs.
6. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
7. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.

   **Caution:** Be sure no power is applied to the chassis or circuit and observe all other safety precautions.
8. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting your foot from a carpeted floor can generate enough static electricity to damage an ESD.

## 1-4 Installation Precautions

1. For safety reasons, more than two people are required for carrying the product.

2. Keep the power cord away from any heat emitting devices, as a melted covering may cause fire or electric shock.

3. Do not place the product in areas with poor ventilation such as a bookshelf or closet. The increased internal temperature may cause fire.

4. Bend the external antenna cable when connecting it to the product. This is a measure to protect it from being exposed to moisture. Otherwise, it may cause a fire or electric shock.

5. Make sure to turn the power off and unplug the power cord from the outlet before repositioning the product. Also check the antenna cable or the external connectors if they are fully unplugged. Damage to the cord may cause fire or electric shock.

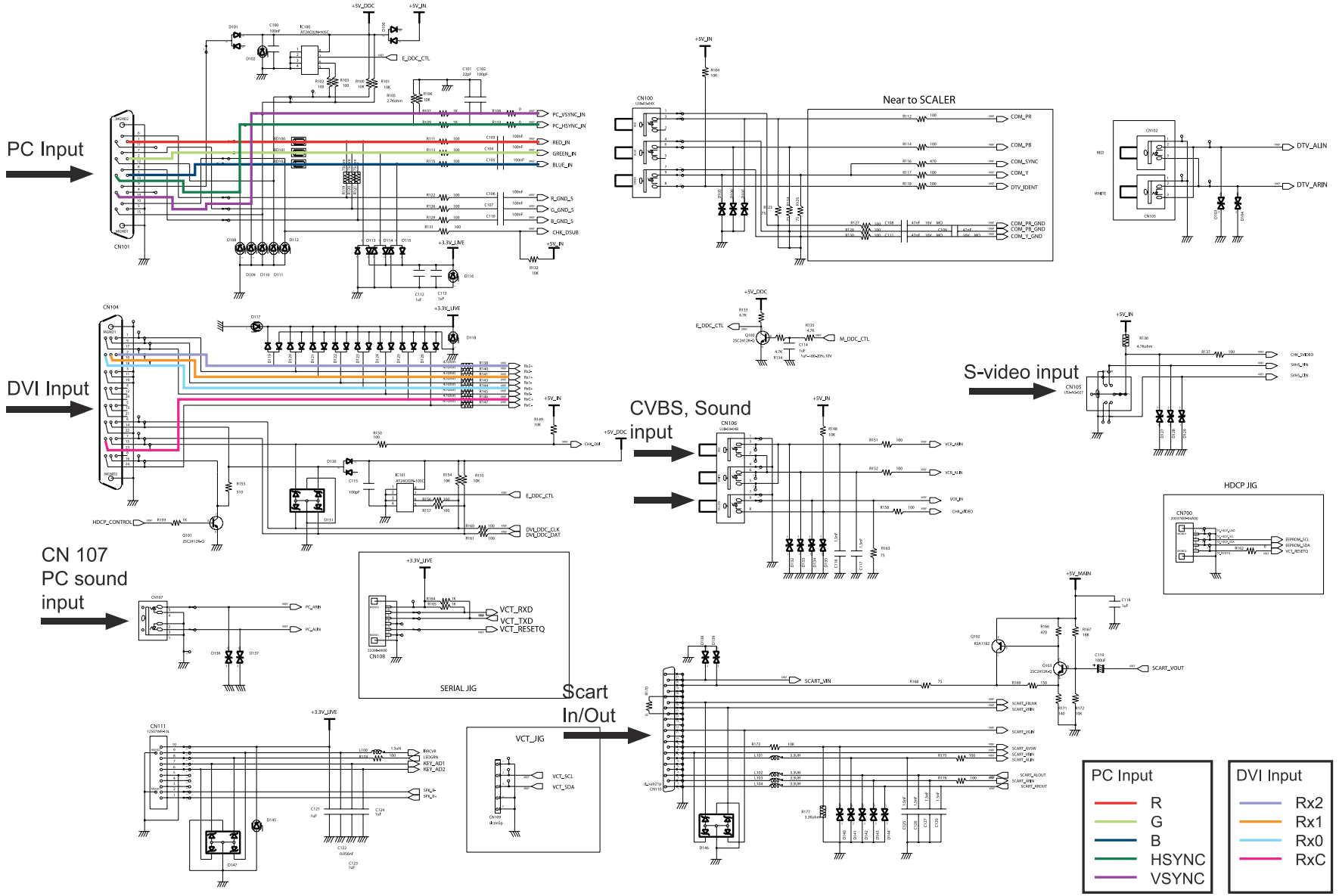
6. Keep the antenna far away from any high-voltage cables and install it firmly. Contact with the high-voltage cable or the antenna falling over may cause fire or electric shock.

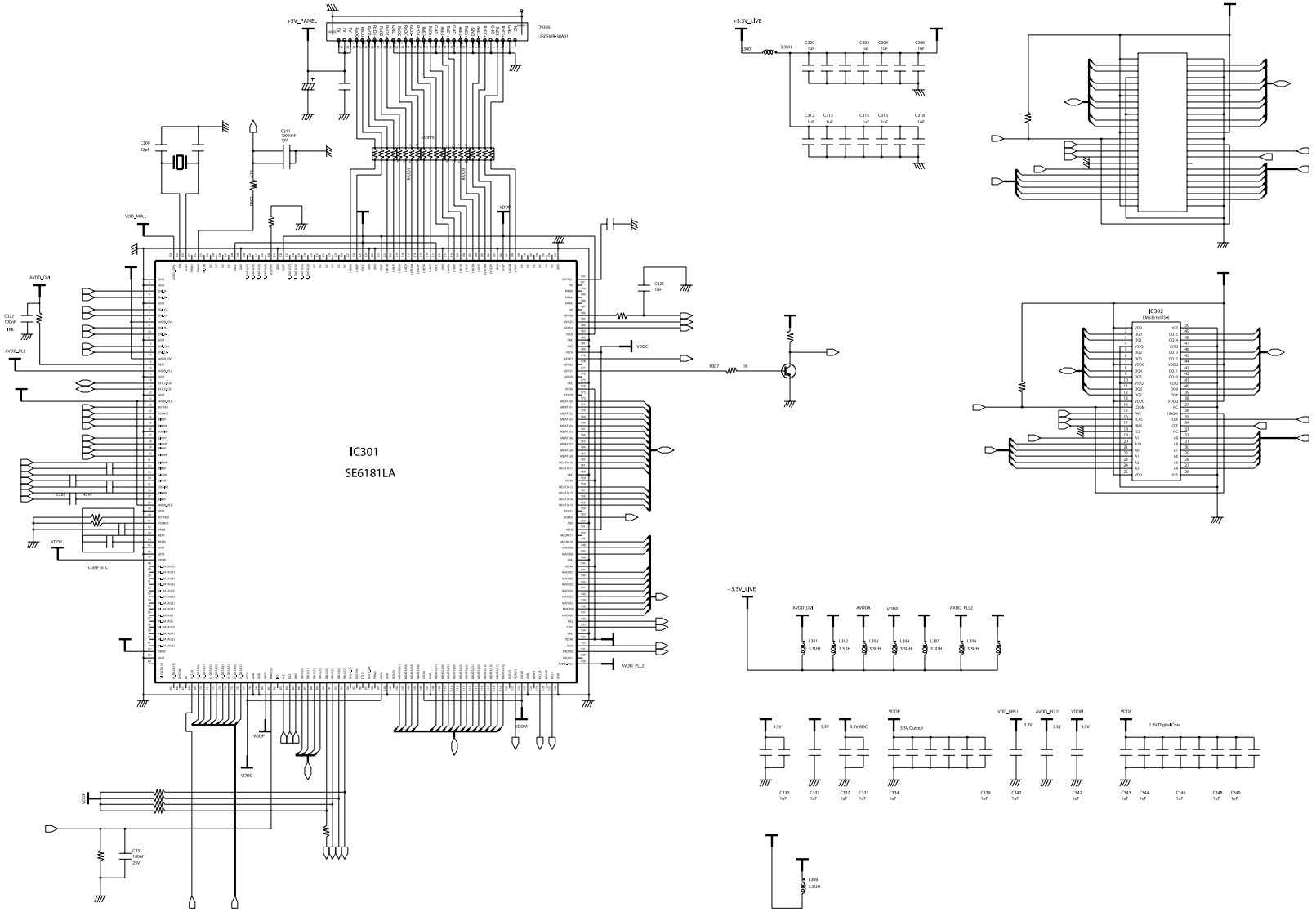
7. When installing the product, leave enough space (10cm) between the product and the wall for ventilation purposes.
   A rise in temperature within the product may cause fire.

# Memo

# 9 Schematic Diagrams

- This Document can not be used without Samsung s authorization.

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SE6181LA
IC302
+5V_PANEL
+3.3V_LIVE
VDDC
VDDP
VDDM
AVDD_PLL
AVDD_PLL2
AVDDA
VDD_MPLL
C309 22pF
C311 10000nF 16V
C321 1uF
C322 100nF 16V
C351 100nF 25V
R307 1K
L300 3.3UH
C300 1uF
C303 1uF
C304 1uF
C306 1uF
C312 1uF
C313 1uF
C315 1uF
C316 1uF
C318 1uF
L301 3.3UH
L302 3.3UH
L303 3.3UH
L304 3.3UH
L305 3.3UH
L306 3.3UH
L308 3.3UH
C330 1uF
C331 1uF
C332 1uF
C333 1uF
C334 1uF
C339 1uF
C340 1uF
C342 1uF
C343 1uF
C344 1uF
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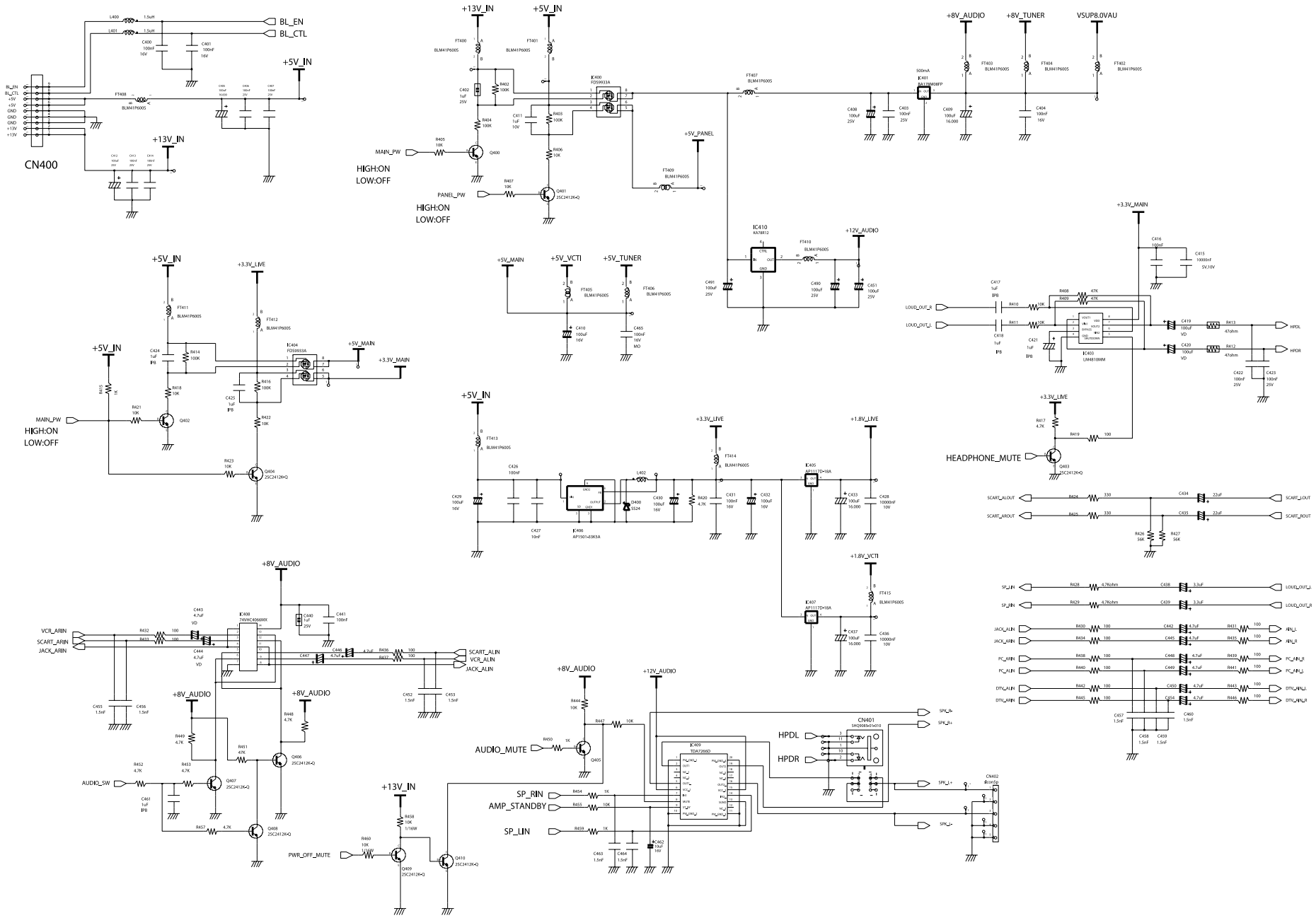
C348 1uF
C349 1uF
3.3V
3.3V ADC
3.3V Output
1.8V Digital Core
Close to IC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BL_CTL
+5V_IN
+13V_IN
+5V_IN
+13V_IN
MAIN_PW
HIGH:ON
LOW:OFF
PANEL_PW
HIGH:ON
LOW:OFF
+5V_PANEL
+8V_AUDIO
+8V_TUNER
VSUP8.0VAU
+5V_IN
+3.3V_LIVE
+5V_IN
MAIN_PW
HIGH:ON
LOW:OFF
+5V_MAIN
+3.3V_MAIN
+5V_MAIN
+5V_VCTI
+5V_TUNER
IC410
+12V_AUDIO
+3.3V_MAIN
LOUD_OUT_R
LOUD_OUT_L
HPDL
HPDR
+5V_IN
+3.3V_LIVE
+1.8V_LIVE
+3.3V_LIVE
HEADPHONE_MUTE
SCART_ALOUT
SCART_AROUT
SCART_LOUT
SCART_ROUT
+1.8V_VCTI
+8V_AUDIO
VCR_ARIN
SCART_ARIN
JACK_ARIN
SCART_ALIN
VCR_ALIN
JACK_ALIN
+8V_AUDIO
+8V_AUDIO
AUDIO_SW
+8V_AUDIO
+12V_AUDIO
AUDIO_MUTE
HPDL
HPDR
CN401
SP_RIN
AMP_STANDBY
SP_LIN
+13V_IN
PWR_OFF_MUTE
SP_LIN
SP_RIN
JACK_ALIN
JACK_ARIN
PC_ARIN
PC_ALIN
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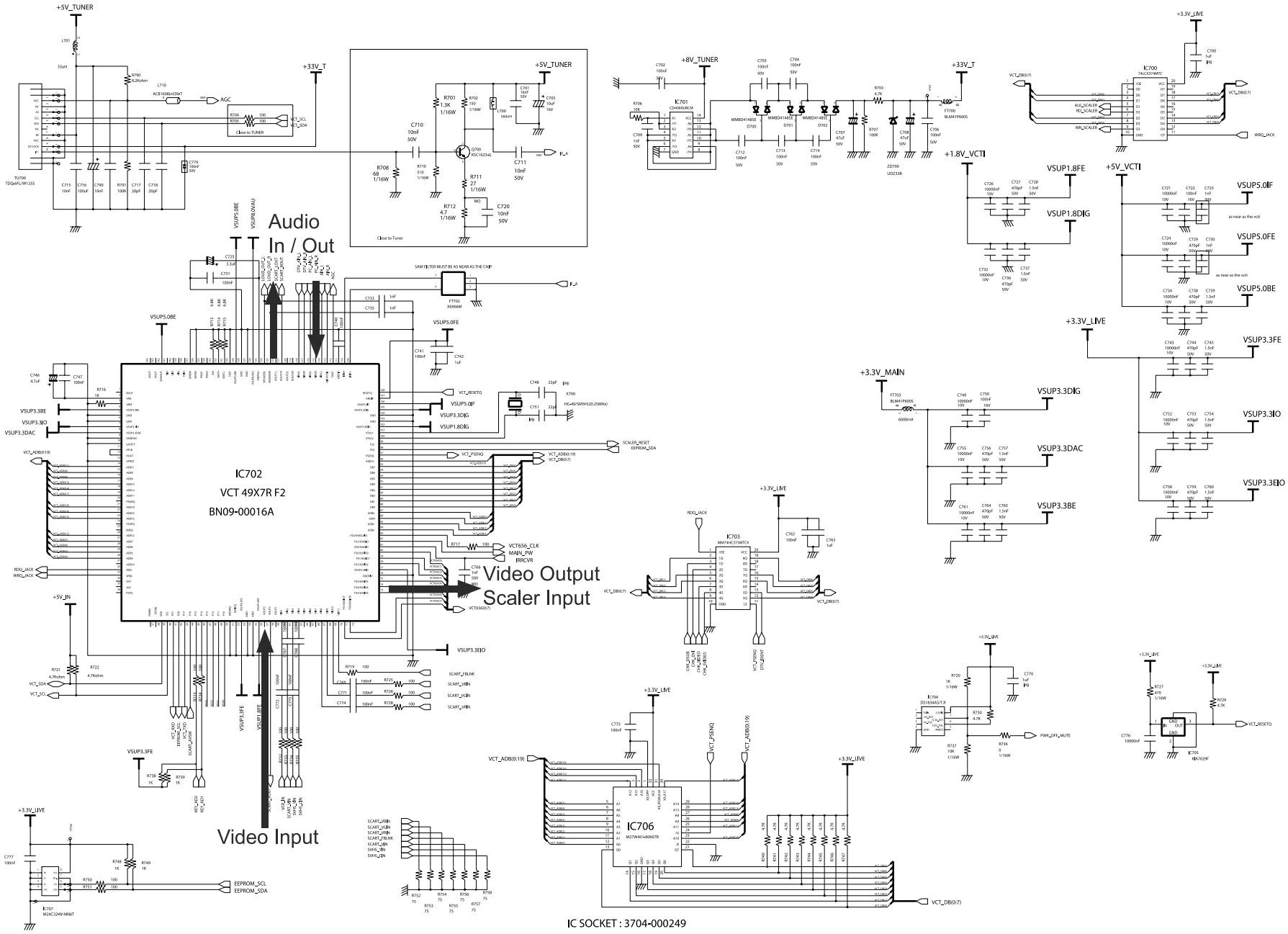
DTV_AIN_R


Audio
In / Out
Video Output
Scaler Input
Video Input
IC702
VCT 49X7R F2
BN09-00016A
IC706
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